

# **ATO-A information Technology**

**Technical Services Group** 

# **Airport Navigation Aid Database Application** 2.0 (AIRNAV 2.0)

**Supplementary Specification** 

# **Revision History**

#	Version	Date	Description	Ву
1	V00R01	09/10/2007	Draft Version of the Document	Vishal Maheshwari / Frances K. Hubbard
2	V01R00	12/20/2007	First Version of the Document after incorporating the comments from Workgroup	Vishal Maheshwari / Frances K. Hubbard

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## 1 Introduction

This document describes the Supplementary Specification for AIRNAV 2.0 system. The supplementary specifications are captured topic wise defined by individual sections.

## 2 Supplementary Specification

Any requirement which is either a global requirement (applicable across the whole of AIRNAV system) or cannot be represented in the iSM Use Case format will be identified as supplementary requirement and documented in this specification document under the appropriate sections.

#### 2.1 Global

NOTE: The term 'Entity' in this section refers to an Airport, a Heliport, a Runway, a Helipad, a NAVAID, a NAVAID component, etc.

- 1. The coordinates will be validated as:
  - a. Latitude (in Direction (N, S only), Degrees (0 to 90 only), Minutes (0 to 59 only), Seconds (0 to 59.999999999999999999) (Collectively coordinates cannot be greater than 90" i.e. value can range only between 0"00'00.0000" to 89"59'59.999999999999").
  - b. Longitude (in Direction (W, E only), Degrees (0 to 180 only), Minutes (0 to 59 only), Seconds (0 to 59.99999999999999)) (Collectively coordinates cannot be greater than 180° i.e. value can range only between 0°00'00.0000" to 179°59'59.999999999999).
- 2. The MagVar/Year will be defined by following:
  - a. Direction (East (E) or West (W) only)
  - b. Value (00 to 99 number only)
  - c. Epoch Year (> 1900 but < 2100 only).
- Date will be displayed as mm/dd/yyyy. User will be able to enter the date with or without dashes and slashes. System will convert the date entered by user in correct format. In case system fails to format the user entered date into mm/dd/yyyy, system will display an appropriate message.
- 4. An audit trail of the changes made to a record in AIRNAV, person who made the changes and when the changes were made should be maintained.
- 5. System will display the navigation information of the path followed by the user to reach a particular screen on each screen.
- 6. System will allow the user to use the navigation path as link to go to other screens.
- 7. The 'Status' information is mandatory information, if Model selected is 'Publication'.
- 8. The 'State' information is mandatory information, if country is 'US'.
- 9. The information 'Service Area' and 'OCC Code' will be populated by the system based on the 'State' selected.
- 10. If the User decides to abort the whole process at anytime, system will display message informing the user that un-saved information will be lost and provide ability for user to save the information and then abort.
- 11. All entities in AIRNAV, which have been identified as following temporality, can be in any of the following models at any given point of time:
  - a. Publication
  - b. Future
  - c. Test
- 12. Only an entity record within 'Publication' model can be in any of the following statuses at any given point of time in AIRNAV:
  - a. Working
  - b. Pending
  - c. Active
  - d. History
- 13. For models other than 'Publication', there are no statuses.

- 14. The Data Specialist will decide the model of the newly added entity record. The model options available will be:
  - a. Publication
  - b. Test
- 15. By default, a newly added entity record will have the model and status of 'Publication' and 'Working' respectively unless a different model and /or status is selected by the Data Specialist during the process of adding a new entity record.
- 16. Following table specifies the possible status change for an entity record within a 'Publication' model:

To	Working	Pending	Active	History.
From				
Working	N/A	Yes (Data	No	No
VVGIKING		Specialist Only)		
Pending	No	N/A	Yes (System Only)	No
Active	No	No	N/A	Yes (System Only)
History	No	No	No	N/A

- 17. System will automatically set the status of an entity record to
  - a. 'Active' from 'Pending'
    - i. On the publication date entered by Data Specialist in the system for a particular record.

AND

- ii. (For NAVAID records only) The commission dates of the components are on or before the publication date of the NAVAID system record.
- b. 'History' from 'Active'
  - When a new record of the entity becomes active OR
  - ii. On the effective end date entered by the Data Specialist, while invoking the 'Cancel' operation on the existing active entity record.
- 18. At any given point of time, there will be only 1 active record for a given entity.
- 19. At any given point of time, there will be only 1 pending record for a given enity for a given publication date.
- 20. Any time a new entity record is created either through the 'Create Entity Version' process or through the 'Add Entity' process, system will force the user to enter the effective date on the entity record.
- 21. Revision Number will be pre-populated by the system with the progressive revision numbers for the given entity record. User will be able to change it.
- 22. No two versions of the same entity record will have same revision number, at a given point of time, within the system.
- 23. All ESV information, with the exception of Flight Inspection approval of ESV, within AIRNAV will be in display-only mode. All the display-only information will be pulled from ESVMS system using web services.
- 24. System will force the user to enter information in the attributes documented under the heading 'Contact Information' with the value for the attribute 'Contact Role' selected as 'Owner' only when the value selected in the attribute 'Owner' is one of the following (including but not limited to):
  - a. Other
  - b. State
  - c. Private
  - d. International Private
  - e. International (Generic)
- 25. Following attributes documented under the heading 'Contact Information' are mutually exclusive. System will not allow the user to enter both sets of information on one record:
  - a. Prefix Name, Last Name, First Name, Middle Initial, Suffix Name

- b. Organization Name
- 26. Following sets of information are required under the heading 'Contact Information':
  - a. Last Name, First Name
  - b. Organization Name
- 27. Some of the attributes mentioned in the use case and business rules document are supposed to be geodetically calculated. The details of such attributes and their respective geodetic calculation must be discussed between development team and the subject matter experts and documented before development.

#### 2.1.1 Search

- 28. All searches in AIRNAV will have the ability to do wildcard search.
- 29. System will allow different operators to be used for the search criterion matching.
- 30. User will enter value for one or more search criterion and system will return the results matching the complete combination of search criterion.
- 31. The user selected search criteria will be displayed on search results display.
- 32. Only 15 records will be displayed on the screen at any time.
- 33. In case there are more than 15 records in the search, User will have the ability to browse through all the records, 15 at a time (something like First, Previous, Next, Last).
- 34. User will have the ability to download the search results in various formats.

#### 2.1.2 Add

35. System will perform a duplicate check on the entity record being added before saving the entity record to AIRNAV.

#### 2.1.3 Edit

- 36. System will allow editing of a record based on the status of the record:
  - a. Status as Working Editing of record will be allowed as well as new version of the record can be created.
  - b. Status as Future Editing of record will be allowed.
  - Status as Test Editing of record will be allowed.
  - d. Status as History Editing of record will not be allowed.
  - e. Status as Active Editing of record will be allowed. User will only be able to edit
    information not having temporality. Also a new version of the record can be
    created.
  - f. Status as Pending Editing of record will be allowed as well as new version of the record can be created.

#### 2.1.4 Delete

- 37. Entity record in the 'Publication' model with following statuses cannot be deleted from the system:
  - a. Active
  - b. History
- 38. Entity record in the 'Test' model can be deleted at any point of time.
- 39. Entity record in the 'Future' model can be deleted provided:
  - a. There is no 'Effective Date' on the record OR
  - b. The 'Effective Date' is not on or past the date the Entity record is being deleted.

#### 2.1.5 Version

40. System will allow creating a new 'Working' version of 'Working', 'Pending' or 'Active' entity record.

41. System will not allow creating a 'Working' version of a 'Future' or 'Test' model entity record.

#### 2.2 NAVAID and Components

- 42. System will automatically populate the attribute 'Broadcast Identifier' with NAVAID Identifier.
- 43. System will allow the user to change the value of the attribute 'Broadcast Identifier'.
- 44. System will automatically create mandatory component records based on the information entered by user in the component section.
- 45. The field 'Required' under the section 'Components' will be populated by the system based on the 'Type' selected.
- 46. System will allow recording multiple restrictions for a given NAVAID system.
- 47. System will allow recording multiple comments for a given NAVAID system.
- 48. System will allow recording multiple radarscope location for a given NAVAID system.
- 49. The attribute 'Other Owner' will be mandatory information, if the user selects the value of the attribute 'Owner' as 'Other'.
- 50. System will allow changing a NAVAID record of a particular NAVAID type to a NAVAID record of another NAVAID type. E.g. Changing the NAVAID record of NAVAID type 'Localizer' to a NAVAID record of NAVAID type 'ILS'.
- 51. Only following NAVAID type changes will be allowed:

#	Current NAVAID Type	Allowed Change to NAVAID Type	Comments
1	DME	TACAN	System automatically converts the DME component information to TACAN component information.
2	DME	VDME	System forces the user to enter the information on VOR before the upgrade is completed.
3	ILS	LOC	System automatically deletes the Glideslope information, but leaves the other components as is.  User has to manually remove any other components.
4	LOC	ILS	System forces the user to enter the information on Glideslope before the upgrade is completed.
5	NDB/C	NDB/H	
6	NDB/C	NDB/M	
7	NDB/H	NDB/M	
8	NDB/H	NDB/C	
9	NDB/M	NDB/C	
10	NDB/M	NDB/H	
11	TACAN	VORTAC	System forces the user to enter the information on VOR before the upgrade is completed.
12	TACAN	DME	System automatically converts the TACAN component information to DME component information.
13	VDME	VOR	System automatically deletes the DME component information.
14	VDME	DME	System automatically deletes the VOR component information.
15	VDME	VORTAC	
16	VOR	VORTAC	System forces the user to enter the information on TACAN before the upgrade is completed.
17	VOR	VDME	System forces the user to enter the information on

			DME before the upgrade is completed.
18	VORTAC	VOR	System automatically deletes the TACAN component information.
19	VORTAC	TACAN	System automatically deletes the VOR component information.
20	VORTAC	VDME	

- 52. If there is a required component which is missing in the new NAVAID type during the NAVAID type change, System will prompt the user to add information about the missing required components.
- 53. If there is an extra required component in the old NAVAID type which is no more required in the new NAVAID type during the NAVAID type change, system will automatically remove the extra component.
- 54. System will automatically activate the component record(s) while activating the NAVAID System record.
- 55. System will not activate a NAVAID record associated with an airport and runway, if the airport and / or runway record is not active.
- 56. System will not activate an NAVAID record if it was created as a result of changing NAVAID type until the original NAVAID record is moved to status 'History'. (NOTE: The NAVAID type for the records may be different, but since one was created from other, the original NAVAID record must be converted to status 'History' before activating the new NAVAID record.)

Date: 1/10/2008

173: Monique Pelletier

Time: 12:00:03 PM

# Monique Pelletier

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Rpt User: FRAN

## Airport Associations Report KOKC WILL ROGERS WORLD

Rpt Name: APT020 Page: 1 of 4

OK US

Rwy Number:17R True Bearing:	179.96	Status:	Α	Landing Length:	9800
Threshold Latitude: N 350	24 21.4200 "			Gradient:	-0.2 %
Threshold Longitude: W 097	36 20.6000"				
Rwy Number:13 True Bearing:	135.06	Status:	Α	Landing Length:	7800
Threshold Latitude: N 350	24 16.6000			Gradient:	%
Threshold Longitude: W 097	36 57.2600"				
Rwy Number 31 True Bearing:	315.07	Status:	A	Landing Length:	7800
Threshold Latitude: N 350	23 21.9900"			Gradient:	%
Threshold Longitude: W 097	35 50.7200"				
Rwy Number:36 True Bearing:	359.97	Status:	Α	Landing Length:	3079
Threshold Latitude: N 350	23 06.2700			Gradient:	0.1 %
Threshold Longitude: W 097 0	36 27.7800"				
Rwy Number 35L True Bearing:	359.96	Status:	Α	Landing Length:	9800
Threshold Latitude: N 35°	22 44.5000			Gradient:	0.2 %
Threshold Longitude: W 097	36 20.5100				
Rwy Number:17L True Bearing:	179.96	Status:	Α	Landing Length:	9802
Threshold Latitude: N 350	24 18.5700			Gradient:	%
Threshold Longitude: W 097	35 20.2000				
Rwy Number35L True Bearing:	359.96	Status:	Р	Landing Length:	9800
Threshold Latitude: N 350	22 44.5000	•		Gradient:	0.2 %
Threshold Longitude: W 097	36 20.5100	ı			
Rwy Number35R True Bearing:	359.96	Status:	Α	Landing Length:	9802
Threshold Latitude: N 350	22 41.6400	1		Gradient:	%
Threshold Longitude: W 097	35 20.1100	t			
Rwy Number:18 True Bearing:		Status	A	Landing Length:	3079
Threshold Latitude: N 35°	23 36.7200	"		Gradient:	-0.1 %
Threshold Longitude: W 097	36 27.8000	••			
Rwy Number:13 True Bearing:	135.06	Status	: Р	Landing Length:	7800
Threshold Latitude: N 35°	24 16.6000	11		Gradient:	%
Threshold Longitude: W 097	36 57.2600				

Rpt User: FRAN

## Airport Associations Report KOKC WILL ROGERS WORLD

Rpt Name: APT020

Page: 2 of 4

				OK	US		
Runways							
Rwy Number31	True Beari	ng:	315.07	Status:	Р	Landing Length:	7800
Threshold Lat	itude: N	35 <sup>0</sup> 23	21.9900	I		Gradient:	%
Threshold Long	jitude: W 0	97 <sup>0</sup> 35	50.7200	1			
Rwy Number:18	True Beari	ing:	179.97	Status:	P	Landing Length:	3079
Threshold Lat	titude: N	35 <sup>0</sup> 23	36.7200	•		Gradient:	-0.1 %
Threshold Long	gitude: W (	97 <sup>0</sup> 36	27.8000	11			
Rwy Number:17R	True Bear	ing:	179.96	Status:	P	Landing Length:	9800
Threshold La	titude: N	35 <sup>0</sup> 24	21.4200	11		Gradient:	-0.2 %
Threshold Long	gitude: W (	97 ° 36	20.6000	11			
Rwy Number:36			359.97	Status:	Р	Landing Length:	3079
Threshold La	titude: N	35 ° 23	3 06.2700	Ħ		Gradient:	0.1 %
Threshold Lon			5 27.7800				
Altimeters			- Ot	O		Field Altimeter Source	
Air ID KOKC	<u>Type</u> L	Operation	n Start	<u>Operation</u>	EIIU	AWO:	
K123	 R					AWO:	
	R					AWO:	
K1K4						AWO:	
KCHK	R					AWO:	
KHMY	R _					AWO:	
KO47	R 						
KOJA	R					AWO:	
KOUN	R					AWO:	
Remarks							
<u>Topic</u> SURVEY	<u>Priority</u> 1	<u>Date</u> 11/07/05	Remark NOS SURV	EY DATED	03/04/92		
			FROM FTW	RWY 17R/35 V FPO WITH AFTER 11/2	NEW IL	ATIONS SLIGHTLY MODIFIED F IS RWY 35L. CHANGES INSIG	PER DATA NIFICANT.
	,		DATED 199	92		DED PER FTW FPO BASED O	
NFDD	2	11/05/99	PER NFDD END TO 30	#047 DATE	D 03/11/	98 RWY 18/36 EXTENDED ON	SOUTH
			ASOS BRO				

Rpt User: FRAN

## **Airport Associations Report** KOKC **WILL ROGERS WORLD**

Rpt Name: APT020

Page: 3 of 4

OK US

Remark	S				· · · · · · · · · · · · · · · · · · ·		
<u>Topic</u> PENDIN	G CHANGES		/19/06 F	<u>temark</u> PER FICO, 07/26/06, KEE			
				PENDING RWY—PER NE DELETED	DD #120 DATED 06	6/22/06, RWY 35	5L VASI
			F	ENDING RWY 35LMA	LSR ADDED. FUNI	DING #61133	
			F	PENDING 17R PAPI DAT	A PROVIDED BY A	NI-680, 10/30/0	6
GPS P	rocedures						
Procedi		orieties.			Proc Type	Amendment	Owner
<u>Contro</u> 19259		<u>cription</u> AV (GPS) Y RW	Y 17I		PROC/V	ORGB	В
19548		AV (RNP) Z RW			PROC/P	ORIG	F
19549		AV (RNP) Z RW			PROC/P	ORIG	F
3817		AV (GPS) RWY			PROC/N	ORGA	В
3815		AV (GPS) RWY			PROC/N	1B	В
18272		AV (GPS) RWY			PROC/S	2	В
SIAPS							<b>T</b>
Nav Id	Nav Type	<u>Description</u>			<u>Amendment</u>		<u>Type</u>
COL	VDME	TST RWY 17R			ORIG		E
EXR	ILS	ILS A RWY 13			ORIG		В
EXR	ILS	ILS OR LOC R	WY 17L		1		В
EXR	ILS	ILS-F			1		В
	FP SIAPS	<u></u>					-
Nav Id	Nav Type	<u>Description</u>			Amendment		<u>Type</u>
OKC	ASR	RADAR RWY	17L		ORIG		В
OKC	ASR	RADAR RWY			ORIG		В
OKC	ASR	RADAR RWY			ORIG		В
OKC	ASR	RADAR RWY			ORIG		B
OKC	ILS	ILS OR LOC		₹	10A		B =
RGR	ILS	ILS RWY 35F			8E		B B
RGR	ILS	ILS RWY 35F	R (CAT II)		8E		
Nava	id Flight P				<u> </u>	Amendm	ent
<u>ldent</u>	<u>Nav Ty</u>	<u>pe Status</u>	Countr				<u> </u>
EXR	ILS	Active	US	ILS A RWY 13		ORIG	
EXR	ILS	Active	ປຣ	ILS OR LOC RW	Y 17L	1	
EXR	ILS	Active	US	ILS-F		1	
COL	VDME	Active	US	TST RWY 17R		ORIG	
Rec	eiver Chec	kpoint					
Nav	aid Ident	Navaid T	ype	<u>Status</u>	Component Ty	'pe	
OKO		VOT		Active	VOT		
Oil	-	- <del></del> ·					

Rpt User: FRAN

## Airport Associations Report KOKC WILL ROGERS WORLD

Rpt Name: APT020

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OK US

**Associated Approach Path Monitor** 

<u>ldent</u>

APM Procedure Type

кокс13

Straight-in

кокс17Р

Straight-in

КОКС35Р

Straight-in



# **ATO-A Information Technology**

**Technical Services Group** 

# Airport Navigation Aid Database Application 2.0 (AIRNAV 2.0)

**Use Case Model** 

# **Revision History**

4	Version	Date	Description	Ву
1	V01R00	12/20/2007	First Version of the Document	Vishal Maheshwari / Frances K. Hubbard
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	4.8	Maintain DGPS Reference Point	g
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	4.10	, , ,	rror! Bookmark not defined
	4.11	Maintain WeatherE	

## 1 Introduction

This document details the Use Case Model for AIRNAV 2.0 system. It provides a brief description of the actors and use cases for purpose of understanding and clarity.

## 2 List of Actors

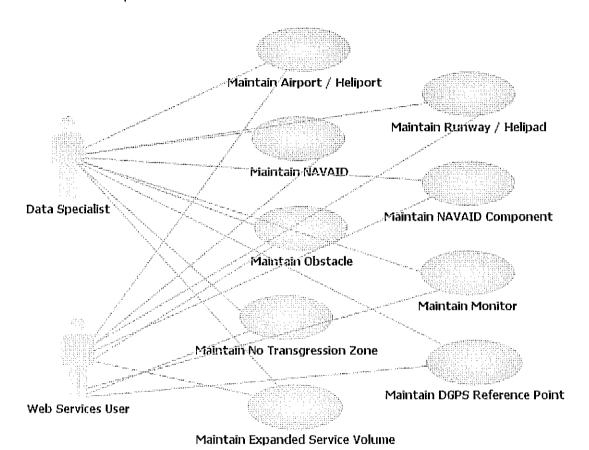
Following actors have been identified for AIRNAV 2.0 system:

- 1. Data Specialist
- 2. Web Services User

# 3 List of High Level Use Cases

Following are the high level use cases identified for AIRNAV 2.0 system:

- 1. Maintain Airport / Heliport
- 2. Maintain Runway / Helipad
- 3. Maintain NAVAID
- 4. Maintain NAVAID Component
- 5. Maintain Obstacle
- 6. Maintain Monitor
- 7. Maintain No Transgression Zone
- 8. Maintain DGPS Reference Point
- 9. Maintain Expanded Service Volume



#### 4 Low Level Use Cases

# 4.1 Maintain Airport / Heliport

#	Use Case Name	Use Case Description
1	Add Airport / Heliport	This use case describes the process of adding a new airport / heliport record by a user.
2	Edit Airport / Heliport	This use case describes the process of editing an existing airport / heliport record by a user.
3	Search Airport / Heliport	This use case describes the process for searching airport / heliport record(s) by a user.
4	View Airport / Heliport	This use case describes the process of viewing an existing airport / heliport record by a user.
5	Delete Airport / Heliport	This use case describes the process of deleting an existing airport / heliport record by a user.
6	Activate Airport / Heliport	This use case describes the process of activating an existing pending airport / heliport record to active status by system automatically.
7	Create Airport / Heliport Version	This use case describes the process of creating a new version of an existing airport / heliport record by a user.
8	Change Active Airport / Heliport to History	This use case describes the process of pushing an existing active airport / heliport record to history status by system automatically.

# 4.2 Maintain Runway / Helipad

#	Use Case Name	Use Case Description
1	Add Runway / Helipad	This use case describes the process of adding a new runway / helipad record by a user.
2	Edit Runway / Helipad	This use case describes the process of editing an existing runway / helipad record by a user.
3	Search Runway / Helipad	This use case describes the process for searching runway / helipad record(s) by a user.
4	View Runway / Helipad	This use case describes the process of viewing an existing runway / helipad record by a user.
5	Delete Runway / Helipad	This use case describes the process of deleting an existing runway / helipad record by a user.
6	Activate Runway / Helipad	This use case describes the process of activating an existing pending runway / helipad record to active status by system automatically.
7	Create Runway / Helipad Version	This use case describes the process of creating a new version of an existing runway / helipad record by a user.
8	Change Active Runway / Helipad to History	This use case describes the process of pushing an existing active runway / helipad record to history status by system automatically.

#### 4.3 Maintain NAVAID

#	# Use Case Name Use Case Description				
1	Add NAVAID	This use case describes the process of adding a new			
		NAVAID record by a user.			
2	Edit NAVAID	This use case describes the process of editing an			
L		existing NAVAID record by a user.			

3	Search NAVAID	This use case describes the process for searching NAVAID record(s) by a user.
4	View NAVAID	This use case describes the process of viewing an existing NAVAID record by a user.
5	Delete NAVAID	This use case describes the process of deleting an existing NAVAID record by a user.
6	Activate NAVAID	This use case describes the process of activating an existing pending NAVAID record to active status by system automatically.
7	Create NAVAID Version	This use case describes the process of creating a new version of an existing NAVAID record by a user.
8	Change Active NAVAID to History	This use case describes the process of pushing an existing active NAVAID record to history status by system automatically.

# 4.4 Maintain NAVAID Component

#	Use Case Name	Use Gase Description
1	Add NAVAID Component	This use case describes the process of adding a new NAVAID component record by a user.
2	Edit NAVAID Component	This use case describes the process of editing an existing NAVAID component record by a user.
3	Search NAVAID Component	This use case describes the process for searching NAVAID component record(s) by a user.
4	View NAVAID Component	This use case describes the process of viewing an existing NAVAID component record by a user.
5	Delete NAVAID Component	This use case describes the process of deleting an existing NAVAID component record by a user.
6	Create NAVAID Component Version	This use case describes the process of creating a new version of an existing NAVAID component record by user.
7	Change Active NAVAID Component to History	This use case describes the process of pushing an existing active NAVAID component record to history status by system automatically.

#### 4.5 Maintain Obstacle

#	Use Case Name	Use Case Description
1	Add Obstacle	This use case describes the process of adding a new obstacle record by a user.
2	Edit Obstacle	This use case describes the process of editing an existing obstacle record by a user.
3	Search Obstacle	This use case describes the process for searching obstacle record(s) by a user.
4	View Obstacle	This use case describes the process of viewing an existing obstacle record by a user.
5	Delete Obstacle	This use case describes the process of deleting an existing obstacle record by a user.

#### 4.6 Maintain Monitor

#	Use Case Name	Use Case Description
1	Add Monitor	This use case describes the process of adding a new
		monitor record by a user.
2	Edit Monitor	This use case describes the process of editing an

		existing monitor record by a user.
3	Search Monitor	This use case describes the process for searching
		monitor record(s) by a user.
4	View Monitor	This use case describes the process of viewing an
		existing monitor record by a user.
5	Delete Monitor	This use case describes the process of deleting an
		existing monitor record by a user.

# 4.7 Maintain No Transgression Zone (NTZ)

#	Use Case Name	Use Case Description
1	Add NTZ	This use case describes the process of adding a new
		NTZ record by a user.
2	Edit NTZ	This use case describes the process of editing an
		existing NTZ record by a user.
3	Search NTZ	This use case describes the process for searching NTZ
		record(s) by a user.
4	View NTZ	This use case describes the process of viewing an
		existing NTZ record by a user.
5	Delete NTZ	This use case describes the process of deleting an
		existing NTZ record by a user.

#### 4.8 Maintain DGPS Reference Point

#	Use Case Name	Use Gase Description
1	Add DGPS Reference Point	This use case describes the process of adding a new
		DGPS Reference Point record by a user.
2	Edit DGPS Reference Point	This use case describes the process of editing an
		existing DGPS Reference Point record by a user.
3	Search DGPS Reference Point	This use case describes the process for searching
		DGPS Reference Point record(s) by a user.
4	View DGPS Reference Point	This use case describes the process of viewing an
		existing DGPS Reference Point record by a user.
5	Delete DGPS Reference Point	This use case describes the process of deleting an
		existing DGPS Reference Point record by a user.

# 4.9 Maintain Expanded Service Volume (ESV)

#	Use Case Name	Use Case Description
1	Add ESV	This use case describes the process of adding a new
		ESV record by a user.
2	Edit ESV	This use case describes the process of editing an
		existing ESV record by a user.
3	Search ESV	This use case describes the process for searching ESV
		record(s) by a user.
4	View ESV	This use case describes the process of viewing an
		existing ESV record by a user.
5	Delete ESV	This use case describes the process of deleting an
		existing ESV record by a user.

#### Page: 1 of 1

## **Approach Path Monitor** KOKC17P

Procedure Type: STRAIGHT-IN

Owner:

F

Airport Ident:

KOKC

Airport Name:

WILL ROGERS WORLD

Airport Location: OKLAHOMA CITY, OK, US

Program Code:

D - NON-PREC - NO MONITOR, ORBIT, RECVR CKPT, SIAP, OR RADIAL OR SIAPS TO OPSNET

AIRPORT ONLY {DF, ASR,

#### **Associated Runway**

Runway Number

Runway Status

17L

Active

17R

Pending

17R

Active

#### **Associated Systems**

<u>ldent</u>	Nav Type	<u>State</u>	<u>Country</u>	<u>Status</u>	Associated Type
EXR	ILS	OK	US	Active	SECONDARY
IRW	VORTAC	OK	US	Active	SECONDARY
OKC	NDB/M	OK	US	Active	SECONDARY
OKC	ASR	OK	US	Active	SECONDARY

Date: 12/09/07 7:13pm AIRPORT: DALLAS-FT WORTH \* \* \* ILS INQUIRY - ACTIVE \* \* \*

Date: 12/09/07 7:13pm	* * * ILS INQUIRY - ACTIVI	=	
AIRPORT: DALLAS-FT WORTH INTERNATIONAL	Service Area: CNTL OCC: MID	DATUMS Horz: NAD83	Vert: NAVD88 CTRY: US
INTERNATIONAL	ARPT-ID: KDFW RWY: 35R LCTN	I: DALLAS-FORT WORTH ST:	TX REG:SW FIFO: OKC OWN: F
	AL #:		***************************************
* * * * AFIS DATA * * * *			* * * * AIRPORT DATA * * * *
ILS ID AJQ GS-ALN	3.00 FREQ 111.750 LC	-BCB 180,27	ARP-LAT N32-53-48.58
APT-ID KDFW GS-WID	11122	-WID 4.20	ARP-LON W097-02-16.79
TH-HGT 575 TH-DIS		-ALN 1.0 - 0.0	FIELD-ELEV 607.0
	TOTAL CINI DIG	-ALN	FLD ELIP-ELEV
RWY-ID 35R TH-LON W097-0	20.00 1111 0110 0,27	PDATE DIST 8500	TH-LAT N32-52-29.85
CAT III DME DIS	1111 2211	PDATE ELV MSL 524.1	TH-LON W097-00-35,67
GS-LAT N32-52-43,46 DME OFF	OCCUPATION CODE 03	I-ELLIP HGT 486.3	TH-ELEV 575.2
GS-LON W097-00-35,59 DME HGT	real nontention A	EOID SEP 00000003	TH-ELIP-ELEV 486.3 E
GS-HGT 561	LC-DIS 8160		RE-LAT N32-53-53.95
GS-OFF L1	LC-FCB 0.27		RE-LON W097-00-35.20
G0-011 E1	LO-1 OD 0.21		RE-ELEV 524.1
* * * LOCALIZER * * * (DFL C	ODE - ILS/L)		RE-ELIP-ELEV 435.2 E
ANT LAT N32-54-04.19 XMTR	DUAL LOC-RE 1035 /	.170 LCW-TAIL YES	RWY-LGTH/WIDTH 8500/150
ANT LON W097-00-35.15 EQUIP-TYPE	WL MK20 LOC-TH 9535 /	1.569 LCW-FT-TH 699	DSPLCD-TH-DIST
ELEV 519.3 STBY-POWER		1,690 DATE-COMM 05/12/96	DSPLCD-TH-LAT
ANT-TYPE LOG-PER ESV	N LOC-MM 0/	DATE-RECON	DSPLCD-TH-LON
DUAL-FREQ YES RESTRICTED	Y LOC-OM 0/	SURVEY-ACCY B	DSPLCD-TH-ELEV
US-DIST: FC 5019/16.0 BC		6.420 VOICE NONE	DSP-TH-ELIP-ELE\
CLRNC-CVG:FC 90/35 150/5 BC		N3.49 RECTYPE	RWY-LDG-LGTH 8500
CKPT-DESC: FC POLKE INT I-AJQ 6.4 DME		1120 1120	TDZ-ELEV 575.2
LOC-WIDTH-MX-ALERT: 4,62/3.79	LOC-AL-MX-ALERT: 4uA	ROLLOUT S	FAR PART 139 Yes
LOC-WIDTH-INITIAL: 4.78/3.62			
1			DECISION-HEIGHTS:
*** GLIDE SLOPE *** (DFL CODE - IL.	S/G)		DH DIST/RALT
FLEV 558.8 XMTR	·	GS-ANT-OFF RADO	(100) 810 96
ELEV 558.8 XMTR ANT-TYPE CAP-FEE FOUR-TYPE W	DUAL DIS-TH-PT-C 809.8/ .133	GS-ANT-OFF R400	(150) 0 0
ANT-TYPE CAP-EFF EQUIP-TYPE V	DUAL DIS-TH-PT-C 809.8 / .133 L MK20 GS-TH 1375 / .226	MON-AL-ANG H3.30 / L2.78	(150) 0 0 (200) 0 0
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ	DUAL         DIS-TH-PT-C         809.8 /         .133           /L MK20         GS-TH         1375 /         .226           333.350         GS-IM         2107 /         .347	MON-AL-ANG H3.30 / L2.78 / DATE-COMM 06/08/96	(150) 0 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV	DUAL     DIS-TH-PT-C     809.8 /     .133       /L MK20     GS-TH     1375 /     .226       333.350     GS-IM     2107 /     .347       N GS-MM     0 /	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON	(150) 0 0 (200) 0 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED	DUAL     DIS-TH-PT-C     809.8 /     .133       /L MK20     GS-TH     1375 /     .226       333.350     GS-IM     2107 /     .347       N     GS-MM     0 /       N     GS-OM     0 /	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH	DUAL         DIS-TH-PT-C         809.8 /         .133           /L MK20         GS-TH         1375 /         .226           333.350         GS-IM         2107 /         .347           N         GS-MM         0 /         0 /           N         GS-OM         0 /         1098.3           GS-FAF         30849 /         5.077	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 7 STBY-POWER B	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y GENERAL DATA:
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH	DUAL         DIS-TH-PT-C         809.8 /         .133           /L MK20         GS-TH         1375 /         .226           333.350         GS-IM         2107 /         .347           N         GS-MM         0 /         n           N         GS-OM         0 /         0 /           1098.3         GS-FAF         30849 /         5.077           1375.0         AIM-PT:LAT         N32-52-43.46	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 7 STBY-POWER B 6 CBP-TH S	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y GENERAL DATA: YR/MVAR 2000/E06
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90	DUAL         DIS-TH-PT-C         809.8 /         .133           /L MK20         GS-TH         1375 /         .226           333.350         GS-IM         2107 /         .347           N         GS-MM         0 /         0 /           N         GS-OM         0 /         1098.3         GS-FAF         30849 /         5.077           1375.0         AIM-PT:LAT         N32-52-43.46         LON         W097-00-35.55	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 7 STBY-POWER B 6 CBP-TH S	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH	DUAL         DIS-TH-PT-C         809.8 /         .133           /L MK20         GS-TH         1375 /         .226           333.350         GS-IM         2107 /         .347           N         GS-MM         0 /         0 /           N         GS-OM         0 /         1098.3         GS-FAF         30849 /         5.077           1375.0         AIM-PT:LAT         N32-52-43.46         LON         W097-00-35.55	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 7 STBY-POWER B 6 CBP-TH S	(150) 0 0 (200) 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS
ANT-TYPE CAP-EFF EQUIP-TYPE WAS CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX	DUAL       DIS-TH-PT-C       809.8 / .133         /L MK20       GS-TH       1375 / .226         333.350       GS-IM       2107 / .347         N       GS-MM       0 /         N       GS-OM       0 /         1098.3       GS-FAF       30849 / 5.077         1375.0       AIM-PT:LAT       N32-52-43.46         LON       W097-00-35.59         -ALERT       3.12 / 2.88	6 MON-AL-ANG H3.30 / L2.78 7 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 7 STBY-POWER B 6 CBP-TH S	(150) 0 0 (200) 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME *** (DFL CODE - IL.	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B G CBP-TH S	(150) 0 0 (200) 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME *** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88  S/D)  DME-DIS-FAF/CHKPT 6.4 54Y DME-GS-ABM-DIST 8056	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-COMM 06/09/98 DATE-RECON 11/05/04	(150) 0 0 (200) 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88  S/D)  DME-DIS-FAF/CHKPT 6.4 54Y DME-GS-ABM-DIST 8056 N DME-ANT-OFF L501	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S  DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8	(150) 0 0 (200) 0 0 (200) 0 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME *** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88  S/D)  DME-DIS-FAF/CHKPT 6.4 54Y DME-GS-ABM-DIST 8056 N DME-ANT-OFF L501	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-COMM 06/09/98 DATE-RECON 11/05/04	(150) 0 0 (200) 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME *** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED	DUAL DIS-TH-PT-C 809.8 / .133 /L MK20 GS-TH 1375 / .226 333.350 GS-IM 2107 / .347 N GS-MM 0 / N GS-OM 0 / 1098.3 GS-FAF 30849 / 5.077 1375.0 AIM-PT:LAT N32-52-43.46 LON W097-00-35.59 -ALERT 3.12 / 2.88  S/D)  DME-DIS-FAF/CHKPT 6.4 54Y DME-GS-ABM-DIST 8056 N DME-ANT-OFF L501	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG	(150) 0 0 (200) 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF* * OU LAT	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF* * OU LAT LON	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA:
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00,00
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71 732 / .120	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00,00 PSEUDO-GS-LON W000-00-00.00
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71 732 / .120 R0	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00,00 PSEUDO-TH-LAT N00-00-00.00
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71 732 / .120	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71 732 / .120 R0 05/13/96	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON NAME/USE	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71 732 / .120 R0 05/13/96 IM	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0
ANT-TYPE CAP-EFF EQUIP-TYPE W CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON NAME/USE SURVEY-ACCY	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * INNER-MARKER * N32-52-22.61 W097-00-35.71  732 / .120 R0 05/13/96  IM 8	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF* * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON NAME/USE SURVEY-ACCY TAPELINE 1616.7	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71  732 / .120 R0 05/13/96  IM 8 110.4	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED   *FAF* * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON NAME/USE SURVEY-ACCY TAPELINE 1616.7 EARTH-CURVE	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S  DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931  * *INNER-MARKER * N32-52-22.61 W097-00-35.71  732 / .120 R0 05/13/96  IM 8 110.4 0.0	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0
ANT-TYPE CAP-EFF EQUIP-TYPE V CL-ELEV-ABM 564.7 FREQ RDH 58.0(57.56) ESV ELEV-FOR-CALC REF RESTRICTED AFIS-CORDS AIMING PT GPI-TH ANT: LAT N32-52-43.44 RPI-TH LON W097-00-30.90 GS-WID-MX-ALERT .82 / .58 GS-ANG-MX  ***ILS-DME*** (DFL CODE - IL LAT N32-54-03.18 XMTR LON W097-00-41.02 CHAN ELEV 529.0 RESTRICTED  *FAF* * OU LAT LON ELEV DIST-TH 29474 / 4.851 DIST-DIR-CL DATE-COMM DATE-RECON NAME/USE SURVEY-ACCY TAPELINE 1616.7	DUAL         DIS-TH-PT-C         809.8 / .133           /L MK20         GS-TH         1375 / .226           333.350         GS-IM         2107 / .347           N GS-MM         0 /           1098.3         GS-FAF         30849 / 5.077           1375.0         AIM-PT:LAT         N32-52-43.46           LON W097-00-35.59         -ALERT         3.12 / 2.88           S/D)         DME-DIS-FAF/CHKPT         6.4           54Y         DME-GS-ABM-DIST         8056           N         DME-ANT-OFF         L501           DME-AER-DIST         9431	MON-AL-ANG H3.30 / L2.78 DATE-COMM 06/08/96 DATE-RECON SURVEY-ACCY 8 STBY-POWER B CBP-TH S DATE-COMM 06/09/98 DATE-RECON 11/05/04 SURVEY-ACCY 8 DME-SER-DIST 931 * *INNER-MARKER * N32-52-22.61 W097-00-35.71  732 / .120 R0 05/13/96  IM 8 110.4	(150) 0 0 (200) 0 0 PERFORMANCE-CLASS III / E / FPC PUBLISHED Y  GENERAL DATA: YR/MVAR 2000/E06 ICAO K BC-STATUS MON-CAT 1 REM-MON DFW ATCT FULL-TIME 24 HOURS NFPO-PROCEDURES 120  ASSOC-FACS APL A C P Y Z PROCEDURES DATA: PSEUDO-GS-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-TH-LAT N00-00-00.00 PSEUDO-GS-TO-PSDO-TH 0

ESV:

RESTRICTION:

10/03/2003 LOC unusable byd 16 NM byd 5° right of course

Date: 12/09/07 7:17pm AIRPORT: DALLAS-FT WORTH INTERNATIONAL

LOC

03/31/97

25NM/5100

#### \* \* \* ILS INQUIRY - ACTIVE \* \* \*

Service Area: CNTL OCC: MID DATUMS Horz: NAD83 Vert: NAVD88 CTRY: US
ARPT-ID: KDFW RWY: 17C LCTN: DALLAS-FORT WORTH ST: TX REG:SW FIFO: OKC OWN: F
AL #:

Α	L#:		
* * * * AFIS DATA * * * *		* *	* * AIRPORT DATA * * * *
ILS ID FLQ GS-ALN 3.0	FREO 110,300 LC-BCB	0.26 ARP	-LAT N32-53-48.58
APT-ID KDFW GS-WID 0.70			-LON W097-02-16.79
	· · · · ·		.D-ELEV 607.0
	20000	1.0 - 0.0	ELIP-ELEV
RE-HGT 562 TH-LAT N32-54-56.5	144 5140 (60,20		
RWY-ID 17C TH-LON W097-01-33.5			ON W097-01-33.50
CAT III DME DIS 1329	TO THE HOLD	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ELEV 561.9
GS-LAT N32-54-45.66 DME OFF R45	, 10111121212 V	472.9	ELIP-ELEV 472.9 E
GS-LON W097-01-33.56 DME HGT 575.		89 IH-1 RE-1	
GS-HGT 562	LC-DIS 13393		
GS-OFF L1	LC-FCB 180.26		LON W097-01-34.22
* * * LOCALIZER * * * * (DFL CODE -	II 9/L\		ELEV 562,2
•	•		ELIP-ELEV 473.6 s
	JAL LOC-RE 1093 / .180 LCW-TA		Y-LGTH/WIDTH 13400/150
ANT LON W097-01-34.28 EQUIP-TYPE WL N			PLCD-TH-DIST
ELEV 562.7 STBY-POWER	B LOC-IM 15256 / 2.511 DATE-C		LCD-TH-LAT
ANT-TYPE LOG-PER ESV	Y LOC-MM 0 / DATE-R		LCD-TH-LON
DUAL-FREQ YES RESTRICTED	N LOC-OM 0 / SURVE	'-ACCY 8 DSF	PLCD-TH-ELEV
US-DIST: FC 5100/25.0 BC	LOC-FAF 46185 / 7.601 VOICE MON-AL-WID W3.24 N2.30 REC TY		P-TH-ELIP-ELEV
CLRNC-CVG:FC 90/35 150/35 BC	MON-AL-WID W3.24 N2.30 REC TY	PE RW	Y-LDG-LGTH 13400
CKPT-DESC: FC JIFFY I-FLQ 7.6 DME RADAR	BC	TDZ	Z-ELEV 562.4
LOC-WIDTH-MX-ALERT: 3.04/2.50	LOC-AL-MX-ALERT: 4uA ROLLO	IT S FAR	PART 139 Yes
LOC-WIDTH-INITIAL: 3.15/2.39		DEC	ISION-HEIGHTS:
		DH	
*** GLIDE SLOPE *** (DFL CODE - ILS/G)		<u>01</u> (100	
ELEV 555.8 XMTR DUA	L DIS-TH-PT-C 924.5/ .152 GS-ANT-OFF	L408 (150	•
		110 20 (10 70	,
CL-ELEV-ABM 562.2 FREQ 335.00	0 GS-TH 1100 / .181 MON-AL-ANG 0 GS-IM 1863 / .307 DATE-COMM	10/04/84	
RDH 58.0(57.95) ESV	N GS-MM 0/ DATE-RECO	N 09/18/05 PEK	FORMANCE-CLASS III / E /
ELEV-FOR-CALC SITE RESTRICTED	N GS-OM 0/ SURVEY-AC	+PC	PUBLISHED
	7 GS-FAF 32792 / 5.397 STBY-POWE	_	EDAL DATA.
	5 AIM-PT:LAT N32-54-45.66 CBP-TH		ERAL DATA:
LON W097-01-28.77			MVAR 2000/E06
	LON W097-01-33.56	ICAC	
GS-WID-MX-ALERT .82 / .58 GS-ANG-MX-ALER	1 3.12 / 2.88		STATUS
*** ILS-DME *** (DFL CODE - ILS/D)			V-CAT 1
	DME DIS ENERGINET - 7.5 DATE COMM		1-MON DFW ATCT
	DME-DIS-FAF/CHKPT 7.6 DATE-COMM		FULL-TIME 24 HOURS
LON W097-01-39.65 CHAN 40X	DME-GS-ABM-DIST 13296 DATE-RECO	141.1	O-PROCEDURES 120
ELEV 575.1 RESTRICTED N	DME-ANT-OFF R459 SURVEY-AC	400	OC-FACS
	DME-AER-DIST 14396 DME-SER-DI	31 220	
*FAF* *OUTER-N	ARKER * * MIDDLE-MARKER * * INNER-M	ARKER*	ACPYZ
LAT	N32-55	U4.U9	OCEDURES DATA:
LON	W097-01	33.40	UDO-GS-LAT N00-00-00.00
ELEV		PSE	UDO-GS-LON W000-00-00.00
DIST-TH 31692 / 5.216	763	.126 PSE	UDO-TH-LAT N00-00-00.00
3.31 111	700	PSE	UDO-TH-LON W000-00-00.00
DIST-DIR-CL	0.0	roung PSD	O-GS-TO-PSDO-TH
DATE-COMM		04/83 LOC	-CROSSES-C/L (
DATE-RECON	09	07/05	
NAME/USE		IM	
SURVEY-ACCY		0	
TAPELINE 1718.6		97.6	
EARTH-CURVE			
MSL-ALTITUDE 2300.1		653.5	
DFL CODE		LS/MI	
RESTRICTION:			
ESV:			
DME 07/31/04 18-25 NM/3800-5100			
DATE DIGHT TO MOTHERS STOP			

Date: 12/09/07 7:17pm

\* \* \* ILS INQUIRY - ACTIVE \* \* \*

AIRPORT: DALLAS-FT WORTH INTERNATIONAL

Service Area: CNTL OCC: MID DATUMS Horz: NAD83 Vert: NAVD88 CTRY: US
ARPT-ID: KDFW RWY: 17C LCTN: DALLAS-FORT WORTH ST: TX REG:SW FIFO: OKC OWN: F
AL #:

SIAPS:									
Airld	State	Description	Amdt	Туре	Airld	State	Description	Amdt	Type
KDFW	TX	CONVERGING ILS RWY 17C	5	В	KDFW	TX	ILS OR LOC RWY 17C	8	В
NON IFF	SIAPS								
Airld	State	Description	Amdt	Type	Airld	State	Description	Amdt	Туре
KDFW	KDFW	ILS OR LOC RWY 17C	8	В					

REMARKS:

COMM IAW 8240.47C, 09/18/05. ARDH = 56.2, REF ELEV = 562.2, PROC TCH = 51.6, PROC GPI = 984.6 BASED ON SITE ELEV.

10/27/05 RWY LENGTH 13400, GS & IM RELOCATED, LOC CW, OM-TH DIST, DME-TH DIST, LOC-TH DIST MODIFIED DUE TO

RWY EXTENSION, EFF 10/27/05. NEW DATA FROM ANI

11/05/99 LCW/CLR COMPARABILITY 03/31/97. LCA (2300' MSL)

11/05/99 DME SERVES RWY 17C (FLQ) & RWY 35C (PKQ).

11/05/99 NGS 405 SURVEY DATED 02/02/98

12/10/02 PER NFDD #208 DATED 10/28/02, MIDDLE MARKER DECOMMISSIONED

08/22/06 FLQ OM DECOMM EFF 06/08/06 PER NFDD #070 04/12/06

FAF-TH DISTANCE PROVIED BY AVN-100, 08/22/06

Date: 12/09/07 7:13pm

\* \* \* ILS INQUIRY - ACTIVE \* \* \*

AIRPORT: DALLAS-FT WORTH INTERNATIONAL

Service Area: CNTL OCC: MID

DATUMS Horz: NAD83

Vert: NAVD88

CTRY: US

ARPT-ID: KDFW RWY: 35R LCTN: DALLAS-FORT WORTH ST: TX REG:SW FIFO: OKC OWN: F AL#:

2A

SIAPS:

**KDFW** 

Airid State Description **KDFW** TX ILS RWY 35R

Amdt Type 2A В

Airld State KDFW TX

Description ILS RWY 35R (CAT II) Amdt 2A

Type В

ASSOCIATED APPROACH PATH MONITOR:

<u>Ident</u> KDFW35P

TX

Procedure Type Straight-in

ILS RWY 35R (CAT III)

Associated Type

Primary

REMARKS:

COMM IAW 8240.47A, 06/08/96. ARDH = 63.6, REF ELEV = 560.7

08/17/06

PT. 47(A) AFIS RESULTS: RDH = 57.06; ARDH = 63.65; GPI = 1088.80; ELEV = 560.70 07/18/06

В

11/05/99

REF ELEVATION ADJUSTED BY FACTOR OF -.3' WITH VERTICAL DATUM CHANGE ON 02/02/98 ANA SURVEY.

11/05/99

NGS 405 SURVEY DATED 02/02/98

11/05/99

DME SERVES RWY 35R (AJQ) & RWY 17L(PPZ).

12/10/02

PER NFDD #208 DATED 10/28/02, MIDDLE MARKER DECOMMISSIONED

10/29/03

LCW CLR COMPARABILITY VERIFIED FROM LCA OF 2200' MSL UP TO 5100' MSL, USING PROCEDURE 1 IAW ORDER

8200.1B, PARA 217.3210B

08/21/06 AJQ OM DECOMM EFF 06/08/06 PER NFDD 070 04/12/06

Rot User: FRAN

#### Airport Detail for KOKC(OKC)

Report: APT002 Page: 1 of 8

Weather Station: Y

Control Zone Operational: F

Control Tower: Y

Control Zone: Y

#### WILL ROGERS WORLD OKLAHOMA CITY

AL #:

State: OKLAHOMA Magnetic Variation/Year: E 07 1985 Country: UNITED STATES Site Nbr: 19136.A Phone: (405)680-3200 Sectional Chart: DALLAS-FT WORTH Category: AIRPORT Survey Code: 6 FAR Part 139: Yes Coordinates Office-Latitude: Ν 35" 23' 35.1600"

Longitude: W 097° 36' 02,6500" Field Elevation: 1295.2 Elipsoid Elevation: Horz, Datum: NAD83

Vert. Datum: NAVD88

Flight Inspection: OKC Procedure Development: 120 Region Code: SW Service Area: CNTL

OCC Code: MID

Auto Weather -

Weather Source: ASOS Location: KOKC Type: 3 Frequency: Service A: Y

Altimeters Field Alt Source Latitude Type **Primary** Airport ID <u>Longitude</u> Start End Yes KOKC AWOS N 35° 23' 35.1600" W 097" 36' 02,6500" 00:00 00:00 **Runway List** 13 A 36 A 17R A 17L A 35R A 31 A 18 A 17R P 35L P 13 P 31 P 18 P 36 P

**Runway Details** 

Surface:

Landing Strip **ASPCON** Ģ

Width:

150

Physical Length:

7800

Rwy Number: Status: A Survey: 6

Markings: NPI Threshold Latitude: N 35° 24' 16,6000" Longitude: W 097° 36' 57.2600" Elevation: 1278.7

Elipsoid Elev: 1191.1 E Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29

Displaced Threshold Latitude:

Longitude: Elevation: Elipsoid Elev: Elipsoid Elev Model: Horz. Dalum: NAD83 Vert. Datum: NGVD29

Landing Length: 7800 FIRWY Length: 7800 FI RWY Height: 1285,8 Tdz Elevation: 1278.7 True Bearing: 135.06 Ft Disp Th: Gradient: RVRTouchdown:

MidPoint: Rollout: Rail: No

RWY Survey: SUPLC 03/04/1992 NGS

Assoc. Fac: A: TESTX ILS (W) YYYYYY LOC (W) XTEST MLS (W) XXXXX SDF (W) TEST TLS (W)

KOKC13

VGSi Lights Type: VASI-4L Owner: S Pilot Cntl Freq: Th Cross Htr 52 High Angle: Com.Date: 05/22/1985 Com, Angle: 3,00 DWB Elev: DWB Threst Ref Pt Lat: Ref Pt Long: Ref Pt Elev: Ref PiThres: Verified: N

Lights · Pilot Config Len Owner Com Dt Cntrl REIL S 03/10/1986 MIRL S 00/00/0000

Rwy Number: 31

Status: A Survey: 6 Markings: NPI

Threshold 35° 23' 21,9900" Latitude: N Longitude: W 097° 35' 50.7200" Elevation: 1285.8 Elipsoid Elev: 1198.2 E Elipsold Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29

Displaced Threshold

Latitude: Longitude: Elevation: Elipsoid Elev:

Elipsoid Elev Model; Horz. Datum; NAD83 Vert. Datum: NGVD29 Landing Length: 7800

FI RWY Length: 7800 FI RWY Height: 1278,7 Tdz Elevation: 1285.8 True Bearing: 315.07 Ft Disp Th: Gradient: RVRTouchdown:

> Mid₽nint: Rollaut

RWY Survey: SUPLC 03/04/1992

Rail: No

Assoc. Fac:

KOKC31 VGSI Lights Type: VASI-4L

Owner: S Pilot Cntl Freq: Th Cross Ht: 52 High Angle: Com.Date: 05/07/1985 Com.Angle: 3.00 DWB Elev: DWB Thres: Ref Pt Lat: Ref Pt Long: Ref Pt Elev: Ref PtThres:

Lights Pilot Config Len Owner Com Dt <u>Cntrl</u> REIL F 09/30/1988 MIRL S 00/00/0000

Verified: N

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 2 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

Runway Details						
	Landing Strip					
Surface: ASPCON G	Width:	150	Physical Length	: 7800		
Rwy Number: 13 KOKC13  Status: P Survey: 6 VGSI Lights 1  Throshold Markings: NPI - G Owner S Plint C			nber: 31 Status: P Survey: 6 Markings: NPI - G	_	Type: VASI-4L	
Latitude: N 35° 24' 16.6000" Longitude: W 097° 36' 57.2600" Elevation: 1278.7 Ellpsold Elev: 1191.1 E Ellpsold Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29  Displaced Threshold Latitude: """ Longitude: """ Elevation: Elevation: Elipsold Elev: Verified: N	High Angle: Com.Date: 05/22/1985 Com.Angle: 3.00 DWB Elev: DWB Thres: Ref Pt Lat: Ref Pt Long: Ref Pt Elev: Ref PtThres:		Threshold Markings: NPI - G  Latitude: N 35° 23' 21.9900" Longitude: W 097° 35' 50.7200" Elevation: 1285.8 Elipsoid Elev: 1198.2 E Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29  Displaced Threshold Latitude: """ Longitude: Elevation: Elipsoid Elev:	Owner: S Pllot Cntl Freq: Th Cross Ht: 52 High Angle: Com.Date: 05/07/1985 Com.Angle: 3.00 DWB Elev: DWB Thres: Ref Pt Lat: Ref Pt Long: Ref Pt Elev: Ref PtThres: Verified: N		D 1 97
Landing Length:         7800         REIL         5           FI RWY Length:         7800         MIRL         5           FI RWY Height:         1285.8	Pilot vner <u>Com Dt Cntrl</u> S 03/10/1986 S 00/00/0000	Elipsoid Elev N Horz. Datum: Vert. Datum: Landing Length FI RWY Length: FI RWY Height: Tdz Elevation	NAD83 NGVD29 1: 7800 1278.7	REIL F	<u>/ner Com Dt</u> = 09/30/1988 5 00/00/0000	Pilat <u>Cntrl</u>
Tdz Elevation: 1278.7  True Bearing: 135.06  Ft Disp Th: Gradient: %  RVRTouchdown: MidPoint: Rollout: Rall: No  RWY Survey: SUPLC 03/04/1992  Assoc. Fac: A: TESTX ILS (W) YYYYYY LOC (W) XTEST MLS (W) XXXXX SDF (W) TEST TLS (W)		True Bearing Ft Disp Th Gradleni RVRTouchdown MidPoint Rolloui Rail	g: 315.07 : t: % :: t: t:	GS		

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 3 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

	Lan	ding Strip					
Surface: ASPCON G	W	idth:	150 Pi	ıysical Length	: 9802	2	
Rwy Number: 17L Status: A Survey: 6	KOKC17L		Rwy Number: Status:	35R A Survey: 6	KOKC35R		
Markings: PIR - G			. Ittlesitola	E			
Displaced Threshold Latitude: Longitude: Elevation: Elipsold Elev: Elipsold Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29	Lights  Config Len Owner Com Dt  MALSR 2400 F 06/11/1998  C/L F 00/00/0000  HIRL S 00/00/0000	ı	Displaced Thresh Latitude: Longitude: Elevation: Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD2	3 b #1		n Owner Com Dt DD S 12/14/198 S 11/16/198 S 02/02/198 S 00/00/000	9 7
ending Length: 9802 I RWY Length: 9802 I RWY Height: 1282.8 Tdz Elevation: 1286.4 True Bearing: 179.96 Ft Disp Th: Gradient: %			Landing Length: 9802 FI RWY Length: 9802 FI RWY Helght: 1286,6 Tdz Elevation: 1293,6 True Bearing: 359,9 Ft Disp Th: Gradient:	3			
VRTouchdown: Yes MidPoint: Yes Rollout: Yes Rail: Yes			RVRTauchdawn: Yes MidPolnt: Yes Rollout: Yes Rail: No				
	GS .		RWY Survey: PIR C Assoc, Fac: A: RGR IL ILS (W)		GS		

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 4 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

Runway Details	
Landing Strip	
Surface: CONC G Width:	150 Physical Length: 9800
Rwy Number: 17R KOKC17R	Rwy Number: 35L KOKC35L  Status: A Survey: 6 VGSI Lights Type: VASI-6L
Status: A Survey: 6	Status: A Survey: 6  Threshold Markings: PIR - F  Latitude: N 35° 22' 44.5000" Longitude: W 097° 36' 20.5100" Elevation: 1263.4 Elipsoid Elev: 1175.5 E Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NAVD88  Displaced Threshold Latitude: Longitude: "" Elevation: Elevation: Elipsoid Elev: Verified: N
Ellpsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29  Landing Length: 9800 FI RWY Length: 9800 FI RWY Height: 1263.4 Tdz Elevation: 1282.1 True Bearing: 179.96 Ft Disp Th: Gradient: -0.2 %  RVRTouchdown: Yes MidPoint:	Elipsoid Elev Model:   Horz. Datum: NAD83   Vert. Datum: NGVD29     Config Len Owner Com Dt REIL F 05/22/1985   HIRL S 00/00/0000     FIRWY Length: 1282.8   Tdz Elevation: 1276.7   True Bearing: 359.96   Ft Disp Tit: Gradient: 0.2 %   RVRTouchdown: Yes   MidPoint:   Gradient: Made   MidPoint:   MidPoint:   REIL F 05/22/1985   HIRL S 00/00/0000     Config Len Owner Com Dt Control REIL F 05/22/1985   HIRL S 00/00/0000   Control REIL F 05/22/1985   Co
Rollout: Yes Rall: Yes RWY Survey: PIR 03/04/1992 NGS Assoc. Fac: A: OKC ILS (A) OKC ILS (P)	Rollout: Yes Rail: No RWY Survey: C 03/04/1992 NGS Assoc. Fac: A: LIK ILS (A)

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 5 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

Runway Details	****						
		Landing Strip			1. 105.81		
Surface: CONC	G	Width:	150	Physical Length	1: 9800		
Rwy Number: 17R  Status: P Survey: 6 Threshold Markings: PIR - F Latitude: N 35° 24′ 21.4200° Longitude: W 097° 36′ 20.6000° Elevation: 1282.8 Elipsold Elev: 1194.9 E Elipsold Elev Model: Horz. Datum: NAD83 Vert. Datum: NAD83 Vert. Datum: NAVD88  Displaced Threshold Latitude: """ Longitude: """ Elipsoid Elev: Elipsoid Elipsoi	Th Cross Ht: 60 High Angle: Com.Date: 11/14/2006 Com.Angle: 3.00 DWB Elev: DWB Thres:	4' 09.9700" 6' 20.5900" Pilot n Dt Cntri	Threshold Latitude: Longitude: Elevation: Elipsoid Elev: Elipsoid Elev: Elipsoid Elev Morz. Datum: Vert. Datum: Displaced Latitude: Longitude: Elevation: Elipsoid Elev Morz. Datum: Vert. Datum: Vert. Datum: Landing Length FI RWY Length: FI RWY Length: FI RWY Height: Tdz Elevation True Bearing FI Disp Th Gradient RVRTouchdown MidPoint Rollout	Status: P Survey: 6  Markings: PIR - F  N 35° 22' 44.5000" W 097° 36' 20.5100" 1263.4 1175.6 E lodel: NAD83 NAVD88  Threshold  *** *** *** *** *** *** *** *** ***	MALSR 2400 F REIL F	ner <u>Com Dt</u> 00/00/0000 05/22/1985 00/00/0000	Pilot Cntrl

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 6 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

Runway Details	
	Landing Strip
Surface: ASPH G	Width: 75 Physical Length: 3079
Rwy Number: 18 KOKC18 Status: A Survey: 6	Rwy Number: 36 KOKC36 Status: A Survey: 6
Threshold Markings: BSC - G	Threshold Markings: BSC - G
Latiltude: N 35° 23' 36.7200" Longitude: W 097" 36' 27.8000" Elevation: 1274.7 Elipsold Elev: 1187.1 E	Latitude: N 35" 23' 06.2700" Longitude: W 097" 36' 27.7800" Elevation: 1271.3 Elipsoid Elev: 1183.7 E
Elipsoid Elev Model: Horz. Datum: NADB3 Vert. Datum: NGVD29	Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29
Displaced Threshold  Latitude:  Longitude:  Elevation:  Elipsoid Elev:	Displaced Threshold  Latitude:  Longitude:  Elevation:  Elipsoid Elev:
Elipsold Elev Model: Horz, Datum: NAD83 Vert, Datum: NGVD29	Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29
Landing Length: 3079 FI RWY Length: 3079 FI RWY Height: 1271.3 Tdz Elevation: 1277.0 True Bearing: 179.97 Ft Disp Th:	Landing Length: 3079  FI RWY Length: 3079  FI RWY Height: 1274.7  Tdz Elevation: 1277.0  True Bearing: 359.97  Ft Disp Th:
Gradient: -0.1 %	Gradient: 0.1 %
(VRTouchdown: MidPoint: Rollout	RVRTouchdown: MidPoint: Rollout:
Rail: No	Rail: No
RWY Survey: AV 03/04/1992 NGS Assoc. Fac: A: FRANH ILS (W) FKH ILS (W)	RWY Survey: AV 03/04/1992 NGS Assoc. Fac: A: ASF MLS (A)

RNAV (GPS) Y RWY 17L

19259

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 7 of 8

#### WILL ROGERS WORLD **OKLAHOMA CITY**

Runway Details			
			Landing Strip
Surface: ASP	H G		Width: 75 Physical Length: 3079
Rwy Number: 18 Status: P S Threshold Markings: B Latitude: N 35° 23' 3 Longitude: W 097" 36' 2 Elevation: 1274.7 Elipsold Elev: 1187.1 E Elipsold Elev Model: Horz. Datum: NAD83	Survey: 6 SC - G 36.7200"	KOKC18	Rwy Number: 36  Status: P Survey: 6  Threshold Markings: BSC - G  Latitude: N 35° 23' 06.2700° Longitude: W 097° 36' 27.7800° Elevation: 1271.3 Elipsoid Elev: 1183.7 E Elipsoid Elev Model: Horz. Datum: NAD83
Vert. Datum: NGVD29  Displaced Threshold Latitude: Longitude: Elevation: Elipsoid Elev: Horz. Datum: NAD83 Vert. Datum: NGVD29 Landing Length: 3079 FI RWY Length: 3079 FI RWY Height: 1271.3 Tdz Elevation: 1277.0 True Bearing: 179.97 Ft Disp Th: Gradient: -0.1 RVRTouchdown: MidPoint: Rollout: Rail: No RWY Survey: AV 03/04 Assoc. Fac: A: FRANH ILS FKH ILS (W)	/1992 NI	GS	Displaced Threshold  Latitude: Longitude: Elevation: Elipsoid Elev: Elipsoid Elev Model: Horz. Datum: NAD83 Vert. Datum: NGVD29  Landing Length: 3079 Fi RWY Length: 3079 Fi RWY Height: 1274.7 Tdz Elevation: 1277.0 True Bearing: 359.97 Ft Disp Th: Gradlent: 0.1 % RVRTouchdown: MidPoint: Rollout: Rall: No RWY Survey: AV 03/04/1992 NGS Assoc. Fac: A: ASF MLS (A)
Remarks			
<u>Topic</u> SURVEY	<u>Priority</u> 1	<u>Date</u> 11/07/05	Remark NOS SURVEY DATED 03/04/92.  11/07/05: RWY 17R/35L ELEVATIONS SLIGHTLY MODIFIED PER DATA FROM FTW FPO WITH NEW ILS RWY 35L. CHANGES INSIGNIFICANT. ACTIVATE AFTER 11/23/06  10/16/06: RWY 18/36 TDZE ADDED PER FTW FPO BASED ON OC
NFDD	2	11/05/99	DATED 1992 PER NFDD #047 DATED 03/11/98 RWY 18/36 EXTENDED ON SOUTH END TO 3079'
AWOS/ASOS	3	07/28/00	ASOS BROADCAST OVER ATIS (405) 682-4871
PENDING CHANGES	4	07/19/06	PER FICO, 07/26/06, KEEP PENDINGPROC/A OPEN
			PENDING RWYPER NFDD #120 DATED 06/22/06, RWY 35L VASI DELETED
			PENDING RWY 35L-MALSR ADDED. FUNDING #61133
			PENDING 17R PAPI DATA PROVIDED BY ANI-680, 10/30/06
GPS Procedures			
Procedure Control Descrip 19259 RNAV		RWY 17L	Proc Type Amendment Owner PROC/V ORGB B

Rpt User: FRAN

# Airport Detail for KOKC(OKC)

Report: APT002 Page: 8 of 8

# WILL ROGERS WORLD OKLAHOMA CITY

AL #:

GPS F	rocedure	5			
Proced	ure				
Contro	<u>ol</u> De	escription	Proc Type	<u>Amendment</u>	<u>Owner</u>
19548	RI	NAV (RNP) Z RWY 35R	PROC/P	ORIG	F
19549	RI	NAV (RNP) Z RWY 17L	PROC/P	ORIG	F
3817	RI	NAV (GPS) RWY 35R	PROC/N	ORGA	В
3815	RI	NAV (GPS) RWY 17R	PROC/N	1B	В
18272	R	NAV (GPS) RWY 35L	PROC/S	2	В
SIAPS					
Nav Id	Nav Type	<u>Description</u>	<u>Amendment</u>		<u>Type</u>
COL	VDME	TST RWY 17R	ORIG		E
EXR	ILS	ILS A RWY 13	ORIG	ORIG	
EXR	ILS	ILS OR LOC RWY 17L	1	1	
EXR	ILS	ILS-F	1	1	
NON II	FP SIAPS				
Nav lo	Nav Typ	e <u>Description</u>	<u>Amendment</u>		<u>Type</u>
OKC	ASR	RADAR RWY 17L	ORIG		В
окс	ASR	RADAR RWY 17R	ORIG		В
OKC	ASR	RADAR RWY 35L	ORIG		В
OKC	ASR	RADAR RWY 35R	ORIG		В
OKC	ILS	ILS OR LOC RWY 17R	10A		В
RGR	ILS	ILS RWY 35R	8E		В
RGR	ILS	ILS RWY 35R (CAT II)	8E		В

#### **Associated Approach Path Monitor**

<u>ldent</u>	APM Procedure Type
KOKC13	Straight-in
KOKC17P	Straight-in
KOKC35P	Straight-in

Rpt Date: 12/9/2007 19:11:12

Rpt User: FRAN

Airport Inquiry for KOKC(OKC)

# WILL ROGERS WORLD OKLAHOMA CITY

AL #:

State: OKLAHOMA
Country: UNITED STATES

Phone: (405)680-3200 Category: AIRPORT

FAR PART 139: Yes

Magnetic Variation/Year: E 07 1985

Site Nbr: 19136.A

Sectional Chart: DALLAS-FT WORTH
Survey Code: 6

Weather Station: Y

Control Tower: Y
Control Zone: Y

Report: APT001

Page 1 of 2

Control Zone Operational: F

Coordinates

Latitude: N 35° 23' 35.1600" Longitude: W 097° 36' 02.6500"

Field Elevation: 1295.2 Elipsoid Elevation:

Horz. Datum: NAD83 Vert. Datum: NAVD88 -Office

Flight Inspection: OKC

Procedure Development: 120
Region Code: SW

Service Area: CNTL

OCC Code: MID

Auto Weather-

Weather Source: ASOS

Location: KOKC Type: 3 Frequency:

.....

Service A: Y

<u>Type</u> L	Primary Yes	Airport ID KOKC		Alt Source AWOS	N 35	<u>Latitude</u> i° 23' 35.1	600"	wo	<u>Longitude</u> 97° 36' 02.	6500"	<u>Start</u> 00:00	<u>End</u> 00:0		
Runwa	y List													
17R A	35L A	17L A	35R A	13 A	31 A	18 A	36 A	17R P	35L P	13 P	31 P	18 P	36 P	

#### Remarks

<u>Topic</u>	<u>Priority</u>	<u>Date</u>	Remark .
SURVEY	1	11/07/05	NOS SURVEY DATED 03/04/92.

11/07/05: RWY 17R/35L ELEVATIONS SLIGHTLY MODIFIED PER DATA FROM FTW FPO WITH NEW ILS RWY 35L. CHANGES INSIGNIFICANT. ACTIVATE AFTER 11/23/06

ACTIVATE AFTER 11/25/00

10/16/06: RWY 18/36 TDZE ADDED PER FTW FPO BASED ON OC

DATED 1992

NFDD 2 11/05/99 PER NFDD #047 DATED 03/11/98 RWY 18/36 EXTENDED ON SOUTH

END TO 3079'

AWOS/ASOS 3 07/28/00 ASOS BROADCAST OVER ATIS (405) 682-4871

PENDING CHANGES 4 07/19/06 PER FICO, 07/26/06, KEEP PENDING-PROC/A OPEN

PENDING RWY--PER NFDD #120 DATED 06/22/06, RWY 35L VASI

DELETED

PENDING RWY 35L-MALSR ADDED. FUNDING #61133

PENDING 17R PAPI DATA PROVIDED BY ANI-680, 10/30/06

## GPS Procedures

Procedure				
Control	Description	Proc Type	<u>Amendment</u>	<u>Owner</u>
19259	RNAV (GPS) Y RWY 17L	PROC/V	ORGB	В
19548	RNAV (RNP) Z RWY 35R	PROC/P	ORIG	F
19549	RNAV (RNP) Z RWY 17L	PROC/P	ORIG	F
3817	RNAV (GPS) RWY 35R	PROC/N	ORGA	В
3815	RNAV (GPS) RWY 17R	PROC/N	1B	В
18272	RNAV (GPS) RWY 35L	PROC/\$	2	В
	•			

#### SIAPS

Nav lo	Nav Type	<u>Description</u>		<u>Amendment</u>	<u>Type</u>
COL	VDME	TST RWY 17R		ORIG	E
EXR	ILS	ILS A RWY 13		ORIG	В
EXR	ILS	ILS OR LOC RWY 17L	•	1	В

Rpt Date: 12/9/2007 19:11:12

Rpt User: FRAN

## Airport Inquiry for KOKC(OKC)

Report: APT001

Page 2 of 2

# WILL ROGERS WORLD OKLAHOMA CITY

AL #:

SI	Α	P	S

Nav Id Nav Ty	pe Description	<u>Amendment</u>	<u>Type</u>	
EXR ILS	ILS-F	1	В	
NON IFP SIAPS	s		<u>.</u>	
Nav id Nav Ty	pe Description	<u>Amendment</u>	<u>Type</u>	
OKC ASR	RADAR RWY 17L	ORIG	В	
OKC ASR	RADAR RWY 17R	ORIG	В	
OKC ASR	RADAR RWY 35L	ORIG	В	
OKC ASR	RADAR RWY 35R	ORIG	В	
OKC ILS	ILS OR LOC RWY 17R	10A	В	
RGR ILS	ILS RWY 35R	8E	В	
RGR ILS	ILS RWY 35R (CAT II)	8E	В	

## Associated Approach Path Monitor

<u>Ident</u>

APM Procedure Type

KOKC13

Straight-in

KOKC17P

Straight-in

KOKC35P

Straight-in

Date: 12/09/07 19:22

\* \* \* PRM MSP INQUIRY - ACTIVE \* \* \*

DATUMS Horz: NAD83 Vert: NGVD29 CTRY: US

AIRPORT: MINNEAPOLIS-ST PAUL INTL/WOLD CHAMBERLAIN

ARPT-ID: KMSP

LCTN: MINNEAPOLIS

ST: MN REG:GL FIFO:BTL OWN: F

RWY-12L / PJL   RWY-LGTH/WDTH   8200/150   TH-LAT   N44-53-34.62   DSPLCD-TH-LAT   RE-LAT   N44-52-52.51   DSPLCD-TH-DIST   0   TH-LEV   838.5   DSPLCD-TH-LEV   RE-ELEV   RE-ELEV   RE-RIEV   RE-	EQUIP-TY DATE-COI DATE-REC	MM	10570	ANT I	YPE CP LAT N44-53-15.I .ON W93-13-22.			PROCEDURE SURVEY-ACCY			
NAME			<del>-</del>	,	* *	* * RUNWA	Y DATA	* * *			
Note	RWY: 12	L/PJL									
Name	RWY-LGTH	HTOWN	8200/150	TH-LAT	N44-53-34.62						
RWY-L03-L5TH	DSPLCD-T	H-DIST	0								•
RWY: 12R / HKZ RWY-LGTH/WDTH 10000/200 TH-LAT N44-53-16.04 DSPLCD-TH-LON RE-LON W39-12-04-25 RWY-LG-LGTH-DIST TH-LON W39-14-02.86 DSPLCD-TH-LON RE-LON W39-12-04-25 DSPLCD-TH-LON RE-LON W39-12-04-25 DSPLCD-TH-LON RE-LON W39-12-04-25 DSPLCD-TH-LON RE-LON W39-12-04-25 DSPLCD-TH-LON RE-LON W39-14-02.86 RWY-LGTH/WDTH 10000/200 TH-LAT N44-52-24.67 DSPLCD-TH-LDIST TH-LON W39-12-04-25 DSPLCD-TH-LON RE-LON W39-14-02.86 RWY-LGTH/WDTH 10000/200 TH-ELEV R13.2 DSPLCD-TH-LON RE-LON W39-14-02.86 RWY-LGTH/WDTH 10000/200 TH-ELEV R13.2 DSPLCD-TH-LEV RE-ELEV R14-02.86 RWY-LGTH/WDTH 10000/200 TH-ELEV R19.2 DSPLCD-TH-LON RE-LON W39-14-02.86 RWY-LGTH/WDTH 10000/200 TH-ELEV R19.2 DSPLCD-TH-LEV RE-ELEV R19.2 RE-ELEV											
Numarian	RWY-BRG		121.33	TH-ELIP-ELE	EV 749.6 E	DSP-TH-ELI	P-ELEV		KE-ELIP-E	:LEV	730,3 E
DSPLCD-TH-DIST   10000   TH-ELEV   841.2   DSPLCD-TH-ELEV   RE-ELEV   RE-E	RWY: 12	R/HKZ									
RWY-LDG-LGTH	RWY-LGTH	HTOWN	10000/200	TH-LAT	N44-53-16.04	DSPLCD-Th	I-LAT		•		
RWY-LOS-LOW   RWY-LOS-LOW   RWY-LOS-LOW   RWY-LOS   RW	DSPLCD-T	H-DIST		• • • • • • • • • • • • • • • • • • • •							
RWY: 30L / MSP RWY-LGH-MVDTH 10000/200 TH-LAT N44-52-24.67 DSPLCD-TH-LAT RE-LAT N44-53-16.04 DSPLCD-TH-DIST TH-LON W93-12-04.25 DSPLCD-TH-LEV RE-ELEV 841.2 RWY-BRG 301.36 TH-ELEV 724.1 E DSP-LD-TH-ELEV RE-ELEV 752.4 E  RWY: 30R / INN RWY-LGH-MVDTH 8200/150 TH-LAT N44-52-52.51 DSPLCD-TH-LEV RE-ELEV 752.4 E  RWY: 30R / INN RWY-LGH-MVDTH 8200/150 TH-LAT N44-52-52.51 DSPLCD-TH-LAT N44-52-53.54 RE-LAT N44-53-34.62 DSP-LD-TH-LEV 819.4 DSP-LD-TH-LEV 819.6 RE-ELEV 833.5 RWY-BRG 301.34 TH-ELEV 819.4 DSP-LD-TH-LEV 819.6 RE-ELEV 749.6 E  NTZ-ID: PJL VMD-ID: 1 DFL CODE: PRM DFL IDENT: PJL 12R; PJL 12L  BETWEEN:12R/HKZ, 12L/PJL DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL 1 N44-51-45.81 W93-10-16.28 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL 1 N44-51-45.81 W93-10-16.28 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL 1 N44-51-45.81 W93-10-16.28 W93-16-2.85 S 0 6000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • • • • • •									-1 55.7	
RWY-LGTH/WDTH   10000/200	RWY-BRG		121.34	TH-ELIP-ELI	EV 752.4 E	DSP-TH-EL	IH-ELEV		KE-ELIP-E	ELEV	724.1 E
DSPLCD-TH-DIST	RWY: 30	L/MSP									
RWY-LDG-LGTH   10000   TH-ELEV   813.2   DSPLCD-TH-ELEV   RE-ELEV   RE-ELEV   RWY-BRG   301.36   TH-ELIP-ELEV   724.1 E   DSP-TH-ELIP-ELEV   RE-ELIP-ELEV   752.4 E   RWY-BRG   301.36   TH-ELIP-ELEV   724.1 E   DSP-TH-ELIP-ELEV   RE-ELIP-ELEV   752.4 E   RWY-BRG   301.30   TH-LAT   N44-52-52.51   DSPLCD-TH-LAT   N44-52-53.54   RE-LAT   N44-53-34.62   N44-54-52-53.54   RE-LAT   N44-53-34.62   N44-54-22.39   W93-13-15.55   DSPLCD-TH-LAT   N44-52-53.54   RE-LAT   N44-53-34.62   N44-54-22.39   W93-13-16.28   N44-54-22.39   W93-13-16.28   N44-54-22.39   W93-15-24.39   DSP-TH-ELIP-ELEV   RW3-TH-ELIP-ELEV   RE-ELIP-ELEV   RW3-TH-ELIP-ELEV   RE-ELIP-ELEV   RE-ELIP-	RWY-LGTI-	HTDWI	10000/200	TH-LAT							
RWY-BRG   301.36   TH-ELIP-ELEV   724.1 E   DSP-TH-ELIP-ELEV   752.4 E									•		
RWY: 30R / INN RWY-LGTH/WDTH	*****									=1 EV	
RWY-LGTH/WDTH	RWY-BRG	·	301.36	THELIP-EL	.EV /24.1 E	DSP-TH-EL	IP-ELEV		KE-ELIP-E	=LEV	/JE.4 L
DSPLCD-TH-DIST   200 TH-LON   W93-11-38.27   DSPLCD-TH-LON   W93-11-40.64   RE-LON   W93-13-15.55   RWY-LDG-LGTH   8000   TH-ELEV   819.4   DSPLCD-TH-ELEV   819.6   RE-ELEV	RWY: 30	OR/INN									
RWY-LDG-LGTH 8000 TH-ELEV 819.4 DSPLCD-TH-ELEV 730.9 E RE-ELEV 749.6 E  RWY-BRG 301.34 TH-ELIP-ELEV 730.3 E DSP-TH-ELIP-ELEV 730.9 E RE-ELIP-ELEV 749.6 E  **** RUNWAY NTZ DATA ****  NTZ-ID: PJL VMD-ID: 1 DFL CODE: PRM DFL IDENT: PJL 12R; PJL 12L  BETWEEN:12R/HKZ, 12L/PJL DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N45-01-25.19 W93-31-46.88 5 0 6000 0  2 N45-01-08.26 W93-32-01.23 32 5 8000 0  3 N44-51-45.81 W93-10-16.28  4 N44-52-02.69 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N44-54-22.39 W93-15-24.39 5 0 6000 0  2 N44-54-05.50 W93-15-38.81 32 5 8000 0  3 N44-44-39.94 W92-53-59.19	RWY-LGTH	HTDWH	8200/150								,
RWY-BRG         301.34         TH-ELIP-ELEV         730.3 E         DSP-TH-ELIP-ELEV         730.9 E         RE-ELIP-ELEV         749.6 E           RWY-BRG         301.34         TH-ELIP-ELEV         730.9 E         RE-ELIP-ELEV         749.6 E           ***********************************											
NTZ-ID: PJL VMD-ID: 1 DFL CODE: PRM DFL IDENT: PJL 12R; PJL 12L  BETWEEN:12R/HKZ, 12L/PJL DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N45-01-25.19 W93-31-46.88 5 0 6000 0  2 N45-01-08.26 W93-32-01.23 32 5 8000 0  3 N44-51-45.81 W93-10-16.28  4 N44-52-02.69 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N44-54-22.39 W93-15-24.39 5 0 6000 0  2 N44-54-05.50 W93-15-38.81 32 5 8000 0											
NTZ-ID:         PJL         VMD-ID:         1         DFL CODE:         PRM         DFL IDENT:         PJL 12R;         PJL 12L           BETWEEN:12R/HKZ, 12L/PJL         DIST-CL-CL:         3380           POINT         LAT         LON         MAX-RANGE         MIN-RANGE         UPP-MSL         LOW-MSL           1         N45-01-25.19         W93-31-46.88         5         0         6000         0           2         N45-01-08.26         W93-32-01.23         32         5         8000         0           3         N44-51-45.81         W93-10-16.28         32         5         8000         0           4         N44-52-02.69         W93-10-01.87         DFL CODE:         PRM         DFL IDENT:         MSP 30R           BETWEEN:30L/MSP, 30R/INN         DIST-CL-CL:         3380         DIST-CL-CL:         3380           POINT         LAT         LON         MAX-RANGE         MIN-RANGE         UPP-MSL         LOW-MSL           1         N44-54-02.39         W93-15-24.39         5         0         6000         0           2         N44-54-05.50         W93-15-38.81         32         5         8000         0           3         N44-44-39.94	RWY-BRG	; ,	301.34	I H-ELIP-EL	.EV /30.3 E	מש-יות-בנ	.IF-CLEV	730.5 L	KE-ELIF-I	ELLV -	
BETWEEN:12R/HKZ, 12L/PJL DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N45-01-25.19 W93-31-46.88 5 0 6000 0  2 N45-01-08.26 W93-32-01.23 32 5 8000 0  3 N44-51-45.81 W93-10-16.28  4 N44-52-02.69 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N44-54-22.39 W93-15-24.39 5 0 6000 0  2 N44-54-05.50 W93-15-38.81 32 5 8000 0					* * * * RUNV	WAY NTZ DA					
POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N45-01-25.19 W93-31-46.88 5 0 6000 0  2 N45-01-08.26 W93-32-01.23 32 5 8000 0  3 N44-51-45.81 W93-10-16.28  4 N44-52-02.69 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N44-54-22.39 W93-15-24.39 5 0 6000 0  2 N44-54-05.50 W93-15-38.81 32 5 8000 0  3 N44-44-39.94 W92-53-59.19	NTZ-ID:	PJL	VMD-	ID: 1	DFL CODI	E: PRM	DFL IDI	ENT: PJL 12R;	PJL 12L		
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2 N45-01-25.19 W93-31-46.66	POINT	LA	T	LON		MAX-R	ANGE M	IN-RANGE	UPP-MSL	LOW-M	SL
3 N44-51-45.81 W93-10-16.28 4 N44-52-02.69 W93-10-01.87  NTZ-ID: MSP VMD-ID: 2 DFL CODE: PRM DFL IDENT: MSP 30L; MSP 30R  BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL 1 N44-54-22.39 W93-15-24.39 5 0 6000 0 2 N44-54-05.50 W93-15-38.81 32 5 8000 0 3 N44-44-39.94 W92-53-59.19	1	N45-01	-25.19	W93-31-46.8	38		5	0	6000		0
4 N44-52-02.69 W93-10-01.87         NTZ-ID:       MSP       VMD-ID:       2       DFL CODE:       PRM       DFL IDENT:       MSP 30L;       MSP 30R         BETWEEN:30L/MSP, 30R/INN       DIST-CL-CL:       3380         POINT       LAT       LON       MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL         1       N44-54-22.39       W93-15-24.39       5       0       6000       0         2       N44-54-05.50       W93-15-38.81       32       5       8000       0         3       N44-44-39.94       W92-53-59.19	2	N45-01	-08.26	W93-32-01.2	23		32	5	0008		0
NTZ-ID:         MSP         VMD-ID:         2         DFL CODE:         PRM         DFL IDENT:         MSP 30L;         MSP 30R           BETWEEN:30L/MSP, 30R/INN         DIST-CL-CL:         3380           POINT         LAT         LON         MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL           1         N44-54-22.39         W93-15-24.39         5         0         6000         0           2         N44-54-05.50         W93-15-38.81         32         5         8000         0           3         N44-44-39.94         W92-53-59.19         W92-53-59.19         W92-53-59.19         0         0	3	N44-51	-45.81	W93-10-16.2	28						
BETWEEN:30L/MSP, 30R/INN DIST-CL-CL: 3380  POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL  1 N44-54-22.39 W93-15-24.39 5 0 6000 0  2 N44-54-05.50 W93-15-38.81 32 5 8000 0  3 N44-44-39.94 W92-53-59.19	4	N44-52	2-02.69	W93-10-01.8	37						
POINT LAT LON MAX-RANGE MIN-RANGE UPP-MSL LOW-MSL 1 N44-54-22.39 W93-15-24.39 5 0 6000 0 2 N44-54-05.50 W93-15-38.81 32 5 8000 0 3 N44-44-39.94 W92-53-59.19	NTZ-ID:	MSP	VMD-	-ID: 2	DFL COD	E: PRM	DFL ID	ENT: MSP 30L;	MSP 30R		
1 N44-54-22.39 W93-15-24.39 5 0 6000 0 2 N44-54-05.50 W93-15-38.81 32 5 8000 0 3 N44-44-39.94 W92-53-59.19	BETWEEN	√:30L/MS	P, 30R/INN		DIST-CL-C	L: 3380	ŀ				
2 N44-54-05.50 W93-15-38.81 32 5 8000 0 3 N44-44-39.94 W92-53-59.19	POINT	LA	ΛT	LON		MAX-F	RANGE M	IIN-RANGE	UPP-MSL	LOW-M	ISL
3 N44-44-39.94 W92-53-59.19	1	N44-54	1-22.39	W93-15-24.3	39		5	0	6000		0
	2	N44-54	1-05.50	W93-15-38.	81		32	5	8000		0
4 NAA-AA-56 77 \\/\92-53-A4 72	3	N44-44	4-39.94	W92-53-59.1	19						
4 (44-44-70:)	4	N44-4	4-56.77	W92-53-44.	72						

Date: 12/09/07 19:22

\*\*\* PRM MSP INQUIRY - ACTIVE \*\*\*

AIRPORT: MINNEAPOLIS-ST PAUL INTL/WOLD CHAMBERLAIN

ARPT-ID: KMSP

LCTN: MINNEAPOLIS

DATUMS Horz: NAD83 Vert: NGVD29 CTRY: US

ST: MN REG:GL FIFO:BTL OWN: F

/ID ID	1 Asso RWY:	12R, 12L				
TNIC	LAT	LON	MAX-RANGE	MIN-RANGE	UPP-MSL	LOW-MSL
1	N45-05-47.74	W93-36-18.43	5	0	6000	0
2	N45-01-53.15	W93-39-37.32	32	5	8000	0
3	N44-49-07.51	W93-09-54.64				
4	N44-53-01.24	W93-06-34.47				
AD ID	2 Asso RWY:	30L, 30R				
TNIC	LAT	LON	MAX-RANGE	MIN-RANGE	UPP-MSL	LOW-MSL
1	N44-57-00.33	W93-15-47.56	5	O	6000	0
2	N44-53-06.32	W93-19-07.34	32	5	8000	0
3	N44-40-15.36	W92-49-33.71				
4	N44-44-08.50	W92-46-12.69				

\* \* \* \* REMARKS \* \* \* \*

Horz/ um: UNKNOWN \*\*\*/ MMUNICATIONS INQUIRY \*\*\* ate: 12/09/07 7:15pm Vert. \_ ..um: FAC-ID CVS FAC-TYPE TCOM/W FIFO OKC OWN A LOCATION CANNON AFB, CLOVIS STATE NM REG SW COUNTRY US ICAO κ DATE-COMM LATITUDE ELEVATION 0 FIFO-PROCEDURES 120 SURVEY-ACCY LONGITUDE

ARTCC

REQUENCIES



## **ATO-A Information Technology**

**Technical Services Group** 

# Airport Navigation Aid Database Application 2.0 (AIRNAV 2.0)

Airport and Runways
Use Cases and Business Rules

## **Revision History**

#	Version	Date	Description	Ву
1	V01R00	12/20/2007	First Version of the Document	Frances K. Hubbard / Vishal Maheshwari

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	2.3	Use Case Specification: Edit Airport / Heliport	13
	2.4	Use Case Specification: View Airport / Heliport	
	2.5	Use Case Specification: Delete Airport / Heliport	
	2.6	Use Case Specification: Activate Airport / Heliport	
	2.7	Use Case Specification: Create Airport / Heliport Version	
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## 1 Introduction

This document fully describes the functionality of the Maintain Airport and Maintain Runway modules within the AIRNAV 2.0 system. These requirements are captured in the AVN-iSM Use Case format. It details, from a user's perspective, the needs the system must address to capture information related to maintaining the airport, runways and lightings information in AIRNAV 2.0 system.

## 1.1 Abbreviations and Acronyms

Refer the document AIRNAV - Glossary for abbreviations, acronyms and other general terminology used in the AIRNAV documentation.

## 2 Use Cases

The Maintain Airport and Maintain Runway modules includes following use cases:

- 1. Search Airport / Heliport
- 2. Add Airport / Heliport
- 3. Edit Airport / Heliport
- 4. View Airport / Heliport
- 5. Delete Airport / Heliport
- 6. Activate Airport / Heliport
- 7. Create Airport / Heliport Version
- 8. Change Active Airport / Heliport to History
- 9. Search Runway
- 10. Add Runway
- 11. Edit Runway
- 12. View Runway
- 13. Delete Runway
- 14. Activate Runway
- 15. Create Runway Version
- 16. Change Active Runway to History

The details of each of the above mentioned use cases are described in this document.

## 2.1 Use Case Specification: Search Airport / Heliport

## 2.1.1 Brief Description

This use case describes the process of searching Airport / Heliport record(s) in AIRNAV system.

#### 2.1.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

## 2.1.3 Pre - conditions

- User must be logged in the system as one of the actors mentioned in section 2.1.2
- 2. User must have the access privileges to search airport / heliport information.

#### 2.1.4 Basic Flow of Events

- 1. User invokes the 'Search Airport / Heliport' functionality in the system.
- 2. System prompts the user to provide the search criteria for searching airport / heliport, including but not limited to:
  - a. AIRNAV Identifier
  - b. Status Listing.
  - c. ICAO Identifier
  - d. NFDC identifier
  - e. Name
  - f. Cities Served
  - a. State Listing.
  - h. Country Listing.
- 3. User enters a value for any combination of search criterion at the same time and selects to retrieve the records.
- 4. System displays a complete listing of airport / heliport records, which satisfy the user entered search criteria, sorted by their AIRNAV Identifier, status (order Active, Pending, Working) within identifier in a tabular format. The information displayed for each airport / heliport will be:
  - a Identifier
  - b. Name
  - c. Cities Served
  - d. State
  - e. Country
  - f. Status
- 5. If no user records satisfy the user entered search criteria, system displays an appropriate message to the user.

## 2.1.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.1.6 Sub - flows

There are no sub-flows for this use case.

## 2.1.7 Key Scenarios

There are no key scenarios for this use case.

## 2.1.8 Post - Conditions

There are no post conditions for this use case.

#### 2.1.9 Extension Points

There are no extension points for this use case.

## 2.1.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Airport / Heliport.

## 2.1.11 Additional Information

There is no additional information for this use case.

## 2.1.12 Business Rules

- 1. For each Airport / Heliport record in the search result, system will provide an ability, for users with appropriate access privileges, to directly navigate to:
  - a. Edit display of that airport / heliport record
  - b. View display of that airport / heliport record
- 2. On the search result, the system will provide an ability to directly navigate to the add airport / heliport display for users with appropriate access privileges.

## 2.2 Use Case Specification: Add Airport / Heliport

## 2.2.1 Brief Description

This use case describes the process of adding an Airport / Heliport record.

## 2.2.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

#### 2.2.3 Pre – Conditions

- User must be logged in the system as one of the actors mentioned in section 2.2.2
- 2. User has conducted 'Search Airport / Heliport' process and found no matching records.
- 3. User must have the access privileges to add airport / heliport information.

## 2.2.4 Basic Flow of Events

- 1. User selects to navigate to the add display.
- 2. System prompts the user to select a either airport or heliport type of record.
- 3. User selects a particular type of record.
- 4. System prompts the user to enter the information, including but not limited to, for the particular type of record:
  - a. General Information
    - i. AIRNAV Identifier Mandatory information.
      - 1. ICAO Prefix Listing
      - 2. AIRNAV Airport Identifier
    - ii. NFDC Identifier
    - iii. Site Number (NFDC's unique control number)
    - iv. ICAO Indicator
    - v. FAR Part 139 Indicator. Listing
    - vi. Terminal Procedures Publication (TPP) Volume Number
    - vii. Approach Landing (AL) Number
    - viii. MagVar / Year
    - ix. Name
    - x. Cities Served Multi-select Listing.
    - xi. Location
    - xii. State Listing.
    - xiii. Country Listing.
    - xiv. Generate Pseudo AIRNAV Identifier Indicator. Listing.
    - xv. Model Mandatory information. Listing.
    - xvi. Status Listing.
    - xvii. Effective Date Mandatory information. Listing.
    - xviii. Effective End Date
    - xix. Data Source Listing.
    - xx. Site Use Category Listing.
    - xxi. Airport Use Listing.
    - xxii. Owner Listing.
    - xxiii. Contact Information
      - 1. Contact Role
      - 2. Prefix Name
      - 3. Last Name
      - 4. First Name

- 5. Middle Initial
- 6. Suffix Name
- 7. Organizational Name
- 8. Address Line 1
- 9. Address Line 2
- 10. City
- 11. State Listing.
- 12. Zip
- 13. Phone Number
- 14. Email
- 15. Remarks
- xxiv. WAAS Available Indicator Listing.
- xxv. Polar Grid Used Indicator Listing.
- xxvi. Lowest Temperature
- xxvii. Visual Flight Rules (VFR) Private Use Indicator Listing.
- xxviii. Official Use Indicator
- b. Communications
  - i. Control Tower Indicator- Listing.
- c. Coordinates
  - i. Airport Reference Point (ARP)
    - 1. Latitude
    - 2. Longitude
  - ii. Field Elevation
    - Value
    - 2. Unit of Measurement Listing.
  - iii. Ellipsoid Elevation
    - 1. Value
    - 2. Unit of Measurement Listing.
    - 3. Source Listing.
    - 4. Model Listing.
  - iv. Horizontal Datum Listing.
  - v. Horizontal Accuracy Listing.
  - vi. Vertical Datum Listing.
  - vii. Vertical Accuracy Listing.
- d. Offices
  - i. Flight Inspection Listing.
  - ii. Procedure Listing.
  - iii. Region Listing.
  - iv. Service Area
  - v. OCC Code
- e. Altimeters
  - i. Altimeter Type
  - ii. Source Identifier Listing.
  - iii. Source Type Listing.
  - iv. Source Coordinates
    - 1. Latitude
    - 2. Longitude
  - v. Source Elevation
    - 1. Value
    - Unit of Measurement Listing.
  - vi. Primary Indicator Listing.
  - vii. Operation Timing
    - 1. Start
    - 2. End
  - viii. Field Altimeter Source Listing.
  - ix. Distance from ARP

- 1. Value
- 2. Unit of Measurement Listing.
- x. Location Description
- f. Weather
  - i. Station Listing.
  - ii. Source
    - 1. Value Mandatory information. Listing.
    - 2. Coordinates
      - a. Latitude
      - b. Longitude
    - 3. Elevation
  - iii. Phone
  - iv. Remarks
  - v. Location Mandatory information
  - vi. Type Mandatory information. Listing.
  - vii. Frequency
  - viii. Service A Indicator
- g. Comments
  - i. Priority
  - ii. Topic Listing.
  - iii. Date
  - iv. Remark
- 5. User enters the information and selects to save the airport / heliport record in the system.
- 6. System adds the airport / heliport record and displays an appropriate message to the user.
- 7. If the system fails to add the airport / heliport record with the information as entered by the user, system displays an appropriate message to the user.

## 2.2.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.2.6 Sub - flows

There are no sub-flows for this use case.

## 2.2.7 Key Scenarios

There are no key scenarios for this use case.

## 2.2.8 Post - Conditions

1. A new Airport / Heliport record is added to the system and is searchable.

## 2.2.9 Extension Points

There are no extension points for this use case.

## 2.2.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Airport / Heliport.

## 2.2.11 Additional Information

There is no additional information for this use case.

#### 2.2.12 Business Rules

- 1. System will provide an ability to:
  - a. navigate back to search display from the add display without adding a new record.
  - b. clear the entire user entered information and any dependent information before record is added to the system.
  - c. navigate to add runway / helipad display from the add display after mandatory information for the airport / heliport has been entered by the user in the system.
  - d. navigate to edit runway / helipad display from the add display.
  - e. navigate to view runway / helipad display from the add display.
- 2. The attribute 'TPP Volume Number' will be a display only attribute.
- 3. The information in the attribute 'TPP Volume Number' will be populated by PTS (Procedure Tracking System) by invoking a service on NACO system.
- 4. The attribute 'Official Use Indicator' will be a display only attribute.
- 5. If user selects 'Military' as the value for attribute 'Airport Use' and selects country other than 'US' as the value for attribute 'Country', then the system will automatically set the attribute 'Official Use Indicator' to 'Yes'.
- 6. Only user(s) with permission to access the Official Use records will be able to access airport records, where the attribute 'Official Use Indicator' is set to 'Yes', through web services in AIRNAV.
- 7. The attribute 'Location' will be concatenation of all the cities selected in the attribute 'Cities Served' with a slash in between the name of cities.
- 8. Complete information including slashes in the attribute 'Location' will be editable by the
- 9. The attribute 'Airport Use' will have following options (including, but not limited to):
  - a. Military
  - b. Civil
  - c. Joint (Military / Civil)
  - d. Private
- 10. The information 'Service Area' and 'OCC Code' will be populated by the system based on the 'State' selected.
- 11. For the attributes 'Field Elevation Value' and 'Ellipsoid Elevation Value', the allowed values are -1338 to 99999.9 (including -1338 and 99999.9).
- 12. User will be able to associate only a runway to a record where the attribute 'Site Use Category' is selected as 'Airport' by the user.
- 13. User will be able to associate both a runway and a helipad to a record where the attribute 'Site Use Category' is selected as 'Airport / Heliport' by the user.
- 14. User will be able to associate only a helipad to a record where the attribute 'Site Use Category' is selected as 'Heliport' by the user.
- 15. If the user selects the value for the attribute 'VFR Private Use Indicator' as 'Yes', the user will be able to over-write every calculated field for that airport / heliport.
- 16. System will warn the user that the re-calculation of ARP is needed, including but not limited to, on meeting of any of the following conditions:
  - a. Change in the value of Field Elevation
  - b. Shortening or Lengthening of Runway associated with Airport record
  - c. Addition or Removal of Runway associated with Airport record.

User will have the option to either re-calculate the ARP or not.

- 17. System will force the user to re-calculate the value of Ellipsoid Elevation, if there is any change in the value of Field Elevation.
- 18. System will not force or warn the user to re-calculate the value of Field Elevation, if there is any change in the value of Ellipsoid Elevation.
- 19. If the user selects the attribute 'Generate Pseudo AIRNAV Identifier' as 'Yes', then the system will automatically generate a numeric AIRNAV Airport Identifier. User will manually enter the ICAO Prefix.

- System will not allow user to associate more than one altimeter as type 'Local' to one airport record.
- 21. System will allow the user to select DGPS Reference Points to be associated to an airport record from a list of such points.
- 22. System will allow user to associate up to 3 different DGPS Reference Points to one airport record.
- 23. System will allow the user to select following options (including but not limited to) in the attribute 'Source Type' under the altimeter section:
  - a. Airport
  - b. NAVAID
  - c. Other
- 24. System will allow the user to select either an active Airport Identifier or an active NAVAID Identifier based on the whether user selects the value of the attribute 'Source Type' as Airport or NAVAID, respectively.
- 25. System will automatically populate the latitude, longitude and elevation information on altimeter, if the attribute 'Source Type' is selected as 'Airport', with the latitude, longitude, elevation from the weather source associated with that airport. If the latitude, longitude, and elevation of the weather source associated with the Airport are not available, system will use the ARP / HRP and elevation of the airport / heliport to populate the latitude, longitude and elevation information on altimeter.
- 26. System will automatically populate the latitude, longitude and elevation information on altimeter, if the attribute 'Source Type' is selected as 'NAVAID', with the latitude, longitude, elevation on the NAVAID record selected by user.
- 27. System will allow the user to manually enter the altimeter type, latitude, longitude and elevation information on an altimeter, if the user selects the value of the attribute 'Source Type' as 'Other'.
- 28. System will default the attribute 'Primary Indicator' to 'Yes', if the attribute 'Altimeter Type' is set to 'Local'.
- 29. System will allow the user to select following options (including but not limited to) in the attribute 'Altimeter Type' under the altimeter section:
  - a. Remote
  - b. Local
- 30. System will allow the user to select following options (including but not limited to) in the attribute 'source' under the coordinates → ellipsoid elevation section:
  - a. Estimated / Calculated (E)
  - b. Surveyed (S)
- 31. The value for the attribute 'Distance from ARP' under the altimeter section will be geodetically calculated as the distance between the altimeter and the ARP. It will be a web service.
- 32. System will allow the user to select following options (including but not limited to) in the attribute 'value' under the weather → source section:
  - a. ASOS
  - b. AWOS
  - c. AWSS
  - d. Mobile
- 33. System will provide a provision for documenting the restrictions at airport level. Requirements need to be discussed and finalized.

## 2.3 Use Case Specification: Edit Airport / Heliport

## 2.3.1 Brief Description

This use case describes the process of editing an existing Airport / Heliport record.

#### 2.3.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

#### 2.3.3 Pre - Conditions

- 1. User must be logged in the system as one of the actors mentioned in section 2.3.2 above.
- 2. User has conducted 'Search Airport / Heliport' process and selected a pending or working Airport / Heliport record for editing.
- 3. User must have the access privileges to edit airport / heliport information.

#### 2.3.4 Basic Flow of Events

- 1. User selects to navigate to edit display for a particular airport / heliport record.
- 2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected airport / heliport.
- 3. IFPA Enterprise finds no associated record(s) in a non-editable mode to the selected airport / heliport record.
- 4. System displays the selected airport / heliport record in the edit mode.
- 5. User makes the necessary changes to the record information and selects to save the changed airport / heliport record in the system.
- 6. System saves the airport / heliport record with the changed information and displays an appropriate message to the user.
- 7. If the system fails to save the airport / heliport record with the changed information as entered by the user, system displays an appropriate message to the user.

#### 2.3.5 Alternate Flows

## 2.3.5.1 Associated Record(s) from IFPA Enterprise

- 1. User selects to navigate to edit display for a particular airport / heliport record.
- 2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected airport / heliport.
- IFPA Enterprise returns a list of associated record(s) in non-editable mode and their respective owner(s) to the selected airport / heliport record.
- 4. System does not allow the edit of the airport / heliport record and displays the list of associated record(s) and their respective owner(s) to the user.

#### 2.3.6 Sub - flows

There are no sub-flows for this use case.

## 2.3.7 Key Scenarios

There are no key scenarios for this use case.

## 2.3.8 Post - Conditions

1. A changed airport / heliport record is saved to the system and is searchable based on the changed information.

#### 2.3.9 Extension Points

There are no extension points for this use case.

## 2.3.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Airport / Heliport.

## 2.3.11 Additional Information

There is no additional information for this use case.

#### 2.3.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to
  - a. navigate back to search display from the edit display without making any changes to the selected record.
  - b. cancel the changes made by user to the record before the changed record is saved to the system.
  - c. navigate to add Runway / Helipad display from the edit display.
  - d. navigate to edit runway / helipad display from the edit display.
- 2. Refer to Business Rules section of the use case: 'Add Airport / Heliport' for other requirements.

## 2.4 Use Case Specification: View Airport / Heliport

## 2.4.1 Brief Description

This use case describes the process of viewing an existing Airport / Heliport record.

#### 2.4.2 Actors

Following are the actors for this use case:

1. Data Specialist

## 2.4.3 Pre - Conditions

- 1. User must be logged in the system as one of the actors mentioned in section 2.4.2 above.
- 2. User has conducted 'Search Airport / Heliport' process and selected an airport / heliport record for viewing.
- 3. User must have the access privileges to view airport / heliport information.

#### 2.4.4 Basic Flow of Events

- 1. User selects to navigate to view display for a particular airport / heliport record.
- 2. System displays the selected airport / heliport record in the view mode.

#### 2.4.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.4.6 Sub – flows

There are no sub-flows for this use case.

## 2.4.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.4.8 Post – Conditions

There are no post-conditions for this use case.

#### 2.4.9 Extension Points

There are no extension points for this use case.

## 2.4.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Airport / Heliport.

#### 2.4.11 Additional Information

There is no additional information for this use case.

#### 2.4.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to:
  - a. navigate back to search display from the view display.
  - b. navigate to view runway / helipad record display from the view airport / heliport display.

c. create new version of airport / heliport record from the view airport / heliport display.

## 2.5 Use Case Specification: Delete Airport / Heliport

## 2.5.1 Brief Description

This use case describes the process of deleting an existing working or pending Airport / Heliport record. The delete here refers to the physical deletion of the airport / heliport record.

#### 2.5.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2 Web Services User

#### 2.5.3 Pre – Conditions

- 1. User must be logged in the system as one of the actors mentioned in section 2.5.2 above.
- 2. User has conducted 'Search Airport / Heliport' process and selected a working or pending Airport / Heliport record for deleting.
- 3. User must have the access privileges to delete airport / heliport information.

#### 2.5.4 Basic Flow of Events

- User selects to delete a particular working or pending airport / heliport record from AIRNAV.
- 2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected airport / heliport.
- 3. IFPA Enterprise finds no associated record(s) to the selected airport / heliport record.
- 4. System deletes the selected airport / heliport record and all the child records from the system and displays an appropriate message to the user.
- 5. If the system fails to delete the selected airport / heliport record, system displays an appropriate message to the user.

#### 2.5.5 Alternate Flows

## 2.5.5.1 Associated Record(s) from IFPA Enterprise

- 1. User selects to delete an airport / heliport record from AIRNAV.
- 2. System invokes a service on the IFPA Enterprise requesting associated record(s) to the selected airport / heliport record.
- 3. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected airport / heliport record.
- 4. System does not allow the delete of the airport / heliport record and displays the list of associated record(s) and their respective owner(s) to the user.

#### 2.5.6 Sub - flows

There are no sub-flows for this use case.

## 2.5.7 Key Scenarios

There are no key scenarios for this use case.

## 2.5.8 Post - Conditions

- 1. The selected airport / heliport record will be deleted from the system.
- 2. The deleted airport /heliport record will not be searchable in the system.

## 2.5.9 Extension Points

There are no extension points for this use case.

## 2.5.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to Airport / Heliport.

## 2.5.11 Additional Information

There is no additional information for this use case.

## 2.6 Use Case Specification: Activate Airport / Heliport

## 2.6.1 Brief Description

This use case describes the process of changing the status of a 'Pending' Airport / Heliport record to 'Active'.

#### 2.6.2 Actors

Following are the actors for this use case:

1. AlRNAV - Internal

#### 2.6.3 Pre-Conditions

1. Airport / Heliport record(s) in 'Publication' model with status 'Pending'.

#### 2.6.4 Basic Flow of Events

- 1. System retrieves the version of airport / heliport records in 'Publication' model with status 'Pending' and publication date as the system date.
- 2. System sets the status of currently 'Active' version of the airport / heliport records, retrieved in step # 1 above, to 'History'.
- System sets the status of the retrieved version of airport / heliport records, as per step # 1 above, to 'Active'.

## 2.6.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.6.6 Sub-flows

There are no sub-flows for this use case.

## 2.6.7 Key Scenarios

There are no key scenarios for this use case.

## 2.6.8 Post-Conditions

- All the currently 'Active' version of the airport / heliport records within the 'Publication'
  model, whose 'Pending' version will become active, are converted to 'History' version of
  the airport / heliport records.
- All the 'Pending' version of the airport / heliport records within the 'Publication' model with publication date as system date are converted to 'Active' version of the airport / heliport records.

## 2.6.9 Extension Points

There are no extension points for this use case.

## 2.6.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to Airport / Heliport.

#### 2.6.11 Additional Information

There is no additional information for this use case.

## 2.7 Use Case Specification: Create Airport / Heliport Version

## 2.7.1 Brief Description

This use case describes the process of creating a new version of an existing Airport / Heliport record.

### 2.7.2 Actors

Following are the actors for this use case:

1. Data Specialist

## 2.7.3 Pre-Conditions

- User must be logged in the system as one of the actors mentioned in section 2.7.2 above.
- User has conducted the 'View Airport / Heliport' process for the selected Airport / Heliport record.
- 3. User must have the access privileges to create a new version of existing airport / heliport information.

#### 2.7.4 Basic Flow of Events

- 1. User selects to create a new version of the Airport / Heliport record.
- 2. System creates a new airport / heliport record with status as 'Working' and displays the new airport / heliport record in an edit mode.
- 3. User makes the necessary changes to the information of the newly created version of the airport / heliport record and selects to save the airport / heliport record in the system.
- 4. System saves the new version of the airport / heliport record with the changed information and displays an appropriate message to the user.
- 5. If the system fails to save the new version of the airport / heliport record with the changed information as entered by the user, system displays an appropriate message to the user.

#### 2.7.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.7.6 Sub-flows

There no sub-flows for this use case.

## 2.7.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.7.8 Post-Conditions

1. A new version of the record with status 'Working' is saved in the system.

#### 2.7.9 Extension Points

There are no extension points for this use case.

## 2.7.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to Airport / Heliport.

## 2.7.11 Additional Information

There is no additional information for this use case.

# 2.8 Use Case Specification: Change Active Airport / Heliport to History

## 2.8.1 Brief Description

This use case describes the process of pushing an existing active Airport / Heliport record to history status by system automatically.

#### 2.8.2 Actors

Following are the actors for this use case:

1. AIRNAV - Internal

#### 2.8.3 Pre-Conditions

Airport / Heliport record(s) in 'Publication' model with status 'Pending'.
 OR
 Existing active airport / heliport record(s) with effective end date.

## 2.8.4 Basic Flow of Events

- 1. System retrieves the version of airport / heliport record(s) in 'Publication' model with status 'Pending' and publication date as the system date.
- 2. System retrieves the version of airport / heliport record(s) in 'Publication' model with status 'Active' and effective end date as the system date.
- 3. System sets the status of currently 'Active' version of the airport / heliport record(s), retrieved in step # 1 and # 2 above, to 'History'.

## 2.8.5 Alternate Flows

There are no alternate flows for this use case.

## 2.8.6 Sub-flows

There are no sub-flows for this use case.

## 2.8.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.8.8 Post-Conditions

- 1. All the currently 'Active' version of the airport / heliport record(s) within the 'Publication' model, whose 'Pending' version will become active as their publication date is same as the system date, are converted to 'History' version of the airport / heliport record(s).
- 2. All the 'Active' version of the airport / heliport record(s), whose effective end date is same as system date, are converted to 'History' version of the airport / heliport record(s).

#### 2.8.9 Extension Points

There are no extension points for this use case.

## 2.8.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to Airport / Heliport.

## 2.8.11 Additional Information

There is no additional information for this use case.

## 2.9 Use Case Specification: Search Runway / Helipad

## 2.9.1 Brief Description

This use case describes the process for searching runway / helipad record(s) in AIRNAV by a user.

## 2.9.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

## 2.9.3 Pre-Conditions

- The user must be logged in the system as one of the actors mentioned in section 2.9.2 above.
- 2. User must have the access privileges to search runway / helipad information.
- 3. User has performed the Search Airport function and selected the appropriate Airport.

#### 2.9.4 Basic Flow of Events

- 1. User invokes the 'Search Runway / Helipad' process within the 'Airport and Runway' functionality in the system.
- 2. System displays a complete listing of runway records at the selected Airport sorted by their runway use category, airport within runway use category and status (order Active, Pending, Working) within airport within runway use category in a tabular format. The information displayed for each runway will be:
  - a. Runway Use Category
  - b. AIRNAV Runway Identifier
  - c. Helipad Identifier
  - d. Airport
  - e. Status
- 3. If no user records satisfy the user entered search criteria, system displays an appropriate message to the user.

## 2.9.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.9.6 Sub-flows

There are no sub-flows for this use case.

## 2.9.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.9.8 Post-Conditions

There are no post conditions for this use case.

#### 2.9.9 Extension Points

There are no extension points for this use case.

## 2.9.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Runway / Helipad.

## 2.9.11 Additional Information

There is no additional information for this use case.

## 2.9.12 Business Rules

- 1. For each runway / helipad record in the search result, system will provide an ability, for users with appropriate access privileges, to directly navigate to
  - a. edit display of that runway / helipad record
  - b. view display of that runway / helipad record
- 2. The attribute 'Airport' will be a mandatory search criterion for the search runway / helipad functionality.

## 2.10 Use Case Specification: Add Runway / Helipad

## 2.10.1 Brief Description

This use case describes the process of adding a new runway / helipad record by a user.

#### 2.10.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

#### 2.10.3 Pre-Conditions

- User must be logged in the system as one of the actors mentioned in section 2.10.2 above.
- 2. User is performing the 'Add Airport / Heliport' or 'Edit Airport / Heliport' process and selects to add a new runway / helipad.
- 3. User must have the access privileges to add runway / helipad information.

## 2.10.4 Basic Flow of Events

- 1. User selects to navigate to the add runway / helipad display.
- 2. System prompts the user to select either a runway or a helipad.
- 3. User selects a particular type of record.
- 4. System prompts the user to enter the information, including but not limited to, for the particular type of record:
  - a. Runway Information
    - i. General Information
      - 1. AIRNAV Runway Identifier
        - a. Number
        - b. Designation
      - 2. Helipad Identifier
      - 3. Runway Use Category
      - 4. Data Source Listing.
      - 5. Runway Identifier
      - 6. Markings
        - a. Type Listing.
        - b. Condition Listing.
      - 7. Runway Visual Range (RVR)
        - a. Touchdown Listing.
        - b. Mid-point Listing.
        - c. Rollout Listing.
      - 8. Runway Declared Distance
        - a. TORA
        - b. TODA
        - c. ASDA
        - d. LDA
        - e. Remarks
      - 9. Model Mandatory information. Listing.
      - 10. Status Listing.
      - 11. Revision Number Mandatory information.
      - 12. Effective Date Mandatory information. Listing.
      - 13. Effective End Date
    - ii. Threshold Information
      - 1. Coordinates

- a. Latitude
- b. Longitude
- 2. Elevation
  - a. Value
  - b. Unit of Measurement Listing
  - c. Source Listing
  - d. Datum Listing
- 3. Ellipsoid Elevation
  - a. Value
  - b. Unit of Measurement Listing.
  - c. Source Listing.
  - d. Datum Listing.
- 4. Horizontal Datum Listing.
- 5. Vertical Datum Listing.
- iii. Displaced Threshold Information
  - 1. Coordinates
    - a. Latitude
    - b. Longitude
  - Elevation
    - a. Value
    - b. Unit of Measurement Listing.
    - c. Source Listing.
    - d. Datum Listing.
  - 3. Ellipsoid Elevation
    - a. Value
    - b. Unit of Measurement Listing.
    - c. Source Listing.
    - d. Datum Listing.
  - 4. Horizontal Datum Listing.

  - 5. Vertical Datum Listing.6. Feet Displaced from Threshold
- iv. OIS Survey Information
  - 1. OIS Code Listing.
  - 2. Date
  - 3. Source Listing.
- v. Landing Length
  - 1. Value
  - 2. Unit of Measurement Listing.
- vi. Touchdown Zone (TDZ) Elevation
  - 1. Value
  - 2. Unit of Measurement Listing.
  - 3. Source Listing
  - 4. Datum Listing.
- vii. True Bearing Calculated but can be over-ridden
- viii. Gradient Calculated but can be over-ridden
- ix. IFR Indicator
- x. Flight Inspection (FI) Length
- xi. Fl Height
- xii. Associate Facilities
- b. Landing Strip Information
  - i. Surface
    - 1. Type Listing.
    - 2. Condition Listing.
  - ii. Width
    - 1. Value
    - 2. Unit of Measurement Listing.

- iii. Physical Length
  - 1. Value
  - 2. Unit of Measurement Listing.
- 5. User enters the information and selects to save the record in the system.
- 6. System adds the runway / helipad record and displays an appropriate message to the user.
- 7. If the system fails to add the runway / helipad record with the information as entered by the user, system displays an appropriate message to the user.

## 2.10.5 Alternate Flows

There are no alternate flows in this use case.

## 2.10.6 **Sub-flows**

## 2.10.6.1 Adding Lighting Information on a Runway / Helipad

- 1. User selects to navigate to add lighting information display.
- 2. System prompts the user to enter the information, including but not limited to, for the general lighting:
  - a. Approach Lights
    - i. Type Listing.
    - ii. Configuration Listing.
    - iii. Actual Length
    - iv. Owner Listing.
    - v. Commission Date
    - vi. Pilot Control Frequency
- 3. System prompts the user to select the value of the attribute 'Light Type'.
- 4. User selects the one of the values for the attribute 'Light Type'
- 5. System prompts the user to enter the information, including but not limited to, for the particular lighting type:
  - a. PAPI / Other VGSI
    - i. Type Listing.
    - ii. Owner Listing.
    - iii. Commissioned
      - 1. Date
      - 2. Angle
    - iv. Threshold Crossing Height
    - v. Downwind Bar
      - 1. Elevation
      - Distance to Threshold
    - vi. Reference Point
      - 1. Latitude
      - 2. Longitude
      - 3. Elevation
      - 4. Distance to Threshold
    - vii. Pilot Control Frequency
    - viii. High Angle
- 6. User enters the information and selects to save the record in the system.
- 7. System adds the lighting record and displays an appropriate message to the user.
- 8. If the system falls to add the lighting record with the information as entered by the user, system displays an appropriate message to the user.

## 2.10.6.2 Editing Lighting Information on a Runway / Helipad

1. User selects to navigate to edit lighting information display.

- 2. System displays the lighting information in edit display.
- 3. User makes the necessary changes to the information and selects to save the changed record in the system.
- 4. System saves the changed lighting record and displays an appropriate message to the user.
- 5. If the system fails to save the changed lighting record with the information as entered by the user, system displays an appropriate message to the user.

## 2.10.6.3 Viewing Lighting Information on a Runway / Helipad

- 1. User selects to navigate to view lighting information display.
- 2. System displays the lighting information in view display.

## 2.10.7 Key Scenarios

There are no key scenarios for this use case.

## 2.10.8 Post-Conditions

1. A new runway / helipad record is added to the system and is searchable.

## 2.10.9 Extension Points

There are no extension points for this use case.

## 2.10.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Runway / Helipad.

## 2.10.11 Additional Information

There is no additional information for this use case.

#### 2.10.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to clear the entire user entered information and any dependent information before record is added to the system.
- If the user navigated to add runway / helipad from add airport / heliport, system will
  provide an ability to navigate to add airport / heliport display from the add runway /
  helipad display.
- If the user navigated to add runway / helipad from edit airport / heliport, system will
  provide an ability to navigate to edit airport / heliport display from the add runway /
  helipad display.
- 4. Following attribute are not relevant for a helipad and will not be captured in the system for helipad:
  - a. Runway Information
    - General Information
      - 1. Runway Visual Range (RVR)
        - a. Touchdown Listing.
        - b. Mid-point Listing.
        - c. Rollout Listing.
      - 2. Runway Declared Distance
        - a. TORA
        - b. TODA
        - c. ASDA
        - d. LDA
        - e. Remarks

- ii. Displaced Threshold Information
  - 1. Coordinates
    - a. Latitude
    - b. Longitude
  - 2. Elevation
  - 3. Ellipsoid Elevation
    - a. Value
    - b. Unit of Measurement Listing.
    - c. Source Listing.
    - d. Datum Listing.
  - 4. Horizontal Datum Listing.
  - 5. Vertical Datum Listing.
- iii. Touchdown Zone (TDZ) Elevation
  - 1. Value
  - 2. Unit of Measurement Listing.
  - 3. Datum Listing.
- iv. True Bearing
- v. Feet Displaced from Threshold
- vi. Gradient
- vii. Flight Inspection (FI) Length
- viii. Fl Height
- 5. The value for the following attributes will be geodetically calculated
  - a. Landing Length → Value (Calculated value can be over-ridden)
  - b. True Bearing
  - c. Feet Displaced from Threshold (Calculated value can be over-ridden)
  - d. Gradient
- 6. Helipad Identifier will be system generated as 00H, 01H ...sequentially on a new helipad record. This will be over-writable by the user.
- 7. The attribute 'Runway Use Category' will have following options (including, but not limited to):
  - a. Runway
  - b. Runway / Helipad
  - c. Helipad
- 8. If the user selects the value of 'Runway Use Category' as Runway or Runway / Helipad, the AIRNAV Runway Identifier will be required
- 9. If the user selects the value of 'Runway Use Category' as Helipad, the AlRNAV Runway Identifier will not be required and will not be available for entry by user.
- 10. If the user selects the value of 'Runway Use Category' as Runway or Runway / Helipad, system will automatically populate some of the reverse runway information based on the information entered by data specialist for the runway.
- 11. If the attribute value for 'AIRNAV Runway Identifier Number' does not match with the attribute value for 'True Bearing', pop up a message asking whether the AIRNAV Runway Identifier Number is correct to the end-user. The range of true bearing to AIRNAV Runway Identifier Number is given below:

#	True Bearing Range	AIRNAV Runway Identifier - Number
1	> 355 and <= 005	36
2	> 005 and <= 015	01
3	> 015 and <= 025	02
4	> 025 and <= 035	03
5	> 035 and <= 045	04
6	> 045 and <= 055	05
7	> 055 and <= 065	06
8	> 065 and <= 075	07
9	> 075 and <= 085	08
10	> 085 and <= 095	09

> 095 and <= 105	10
> 105 and <= 115	11
> 115 and <= 125	12
> 125 and <= 135	13
> 135 and <= 145	14
> 145 and <= 155	15
> 155 and <= 165	16
> 165 and <= 175	17
> 175 and <= 185	18
> 185 and <= 195	19
> 195 and <= 205	20
> 205 and <= 215	21
> 215 and <= 225	22
> 225 and <= 235	23
> 235 and <= 245	24
> 245 and <= 255	25
> 255 and <= 265	26
> 265 and <= 275	27
> 275 and <= 285	28
> 285 and <= 295	29
> 295 and <= 305	30
> 305 and <= 315	31
> 315 and <= 325	32
> 325 and <= 335	33
> 335 and <= 345	34
> 345 and <= 355	35
	> 105 and <= 115 > 115 and <= 125 > 125 and <= 135 > 135 and <= 145 > 145 and <= 155 > 145 and <= 155 > 155 and <= 165 > 165 and <= 175 > 175 and <= 185 > 185 and <= 195 > 195 and <= 205 > 205 and <= 215 > 215 and <= 225 > 225 and <= 235 > 245 and <= 245 > 245 and <= 265 > 265 and <= 275 > 275 and <= 285 > 285 and <= 295 > 295 and <= 325 > 315 and <= 315 > 315 and <= 325 > 325 and <= 335 > 335 and <= 345

- 12. If the user selects the value of 'Runway Use Category' as Helipad, the Helipad Identifier will be required.
- 13. If the user selects the value of 'Runway Use Category' as Runway or Runway / Helipad, the Helipad Identifier will not be required
- 14. System will require either Helipad Identifier or AIRNAV Runway Identifier Number for a runway / helipad record to exist.
- 15. If the user changes the vertical datum for threshold or displaced threshold, system will prompt the user to update the threshold or displaced threshold elevation and TDZ elevation information.
- 16. The attribute 'Lights → Light Type' will have following options (including, but not limited to):
  - a. PAPI
  - b. Other VGSI
- 17. The options available in the attribute 'PAPI / Other VGSI → Type' are dependent on the value selected by the user for the attribute 'Light Type'.
- 18. The value of the attribute 'Lights → PAPI/Other VGSI → Commissioned Angle' must be greater than -10 and less that 10.
- 19. The value of the attribute 'Lights → PAPI/Other VGSI → Threshold Crossing Height' must be within the range of 0 to 999.9.
- 20. The value of the attribute 'Lights → PAPI/Other VGSI → Reference Point → Distance to threshold' must be within the range of -1338 to 99,999.
- 21. System will provide an ability, for the users with appropriate access privileges, to:
  - a. navigate back from the add lighting information display to add runway / helipad display.
  - b. navigate back from the edit lighting information display to add runway / helipad display.
  - c. navigate back from the view lighting information display to add runway / helipad display.

## 2.11 Use Case Specification: Edit Runway / Helipad

## 2.11.1 Brief Description

This use case describes the process of editing runway / helipad record of an existing airport / heliport record.

#### 2.11.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

## 2.11.3 Pre – Conditions

- User must be logged in the system as one of the actors mentioned in section 2.11.2 above.
- 2. User must have the access privileges to edit runway / helipad information.
- User has conducted 'Search Runway / Helipad' process and has selected a runway / helipad record for editing.
   OR

User is performing 'Add Airport / Heliport' or 'Edit Airport / Heliport' process and selects to edit the runway / helipad associated with the airport / heliport.

#### 2.11.4 Basic Flow of Events

- 1. User selects to navigate to edit runway / helipad display.
- 2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected runway / helipad.
- 3. IFPA Enterprise finds no associated record(s) to the selected runway / helipad record.
- 4. System displays the selected runway / helipad record in the edit mode.
- 5. User makes the necessary changes to the record information and selects to save the changed runway / helipad record in the system.
- 6. System saves the runway / helipad record with the changed information and displays an appropriate message to the user.
- 7. If the system fails to save the runway / helipad record with the changed information as entered by the user, system displays an appropriate message to the user.

## 2.11.5 Alternate Flows

## 2.11.5.1 Associated Record(s) from IFPA Enterprise

- 1. User selects to navigate to edit display for a particular runway / helipad record.
- 2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected runway / helipad.
- 3. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected runway / helipad record.
- 4. System does not allow the edit of the runway / helipad record and displays the list of associated record(s) and their respective owner(s) to the user.

## 2.11.6 Sub – flows

## 2.11.6.1 Adding Lighting Information to a Runway / Helipad

1. User selects to navigate to add lighting information display.

- 2. System prompts the user to enter the information, including but not limited to, for the general lighting:
  - a. Lights
    - i. Type Listing.
    - ii. Configuration Listing.
    - iii. Approach Lights Actual Length
    - iv. Owner Listing.
    - v. Commission Date
    - vi. Pilot Control Frequency
- 3. System prompts the user to select the value of the attribute 'Light Type'.
- 4. User selects the one of the values for the attribute 'Light Type'
- 5. System prompts the user to enter the information, including but not limited to, for the particular lighting type:
  - a. PAPI / Other VGSI
    - i. Type Listing.
    - ii. Owner Listing.
    - iii. Commissioned
      - 1. Date
      - 2. Angle
    - iv. Threshold Crossing Height
    - v. Downwind Bar
      - 1. Elevation
      - 2. Distance to Threshold
    - vi. Reference Point
      - 1. Latitude
      - 2. Longitude
      - 3. Elevation
      - 4. Distance to Threshold
    - vii. Pilot Control Frequency
    - viii. High Angle
- 6. User enters the information and selects to save the record in the system.
- 7. System adds the lighting record and displays an appropriate message to the user.
- 8. If the system fails to add the lighting record with the information as entered by the user, system displays an appropriate message to the user.

## 2.11.6.2 Editing Lighting Information to a Runway / Helipad

- 1. User selects to navigate to edit lighting information display.
- 2. System displays the lighting information in edit display.
- 3. User makes the necessary changes to the information and selects to save the changed record in the system.
- 4. System saves the changed lighting record and displays an appropriate message to the user
- 5. If the system fails to save the changed lighting record with the information as entered by the user, system displays an appropriate message to the user.

## 2.11.6.3 Viewing Lighting Information on a Runway / Helipad

- 1. User selects to navigate to view lighting information display.
- 2. System displays the lighting information in view display.

## 2.11.7 Key Scenarios

There are no key scenarios for this use case.

## 2.11.8 Post – Conditions

1. A changed runway / helipad record is saved to the system and is searchable based on the changed information.

## 2.11.9 Extension Points

There are no extension points for this use case.

## 2.11.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to Runway / Helipad.

## 2.11.11 Additional Information

There is no additional information for this use case.

## 2.11.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to:
  - a. navigate back to search display from the edit display without making any changes to the selected record.
  - b. cancel the changes made by user to the record before the changed record is saved to the system.
  - c. navigate back from the add lighting information display to edit runway / helipad display.
  - d. navigate back from the edit lighting information display to edit runway / helipad display.
  - e. navigate back from the view lighting information display to edit runway / helipad display.
- 2. If the user navigated to edit runway / helipad from add airport / heliport, system will provide an ability to navigate to add airport / heliport display from the edit runway / helipad display.
- 3. If the user navigated to edit runway / helipad from edit airport / heliport, system will provide an ability to navigate to edit airport / heliport display from the edit runway / helipad display.
- 4. Refer to Business Rules section of the use case: 'Add Runway / Helipad' for other requirements.

## 2.12 Use Case Specification: View Runway / Helipad

## 2.12.1 Brief Description

This use case describes the process of viewing an existing runway / helipad record by a user.

#### 2.12.2 Actors

Following are the actors for this use case:

1. Data Specialist

## 2.12.3 Pre-Conditions

- User must be logged in the system as one of the actors mentioned in section 2.12.2 above.
- 2. User has conducted 'Search Runway / Helipad' process and has selected a component record for viewing.

User is performing 'Add Airport / Heliport' or 'Edit Airport / Heliport' or 'View Airport / Heliport' process and selects to view the runway / helipad associated with the airport / heliport.

3. User must have the access privileges to view runway / helipad information.

## 2.12.4 Basic Flow of Events

- 1. User selects to navigate to view display for a particular runway / helipad record.
- 2. System displays the selected runway / helipad record in the view mode.

#### 2.12.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.12.6 Sub – flows

## 2.12.6.1 Viewing Lighting Information on a Runway / Helipad

- 1. User selects to navigate to view lighting information display.
- 2. System displays the lighting information in view display.

## 2.12.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.12.8 Post – Conditions

There are no post-conditions for this use case.

#### 2.12.9 Extension Points

There are no extension points for this use case.

## 2.12.10 Special Requirements

 Refer to Business Rules section and Supplementary Specifications for requirements related to runway / helipad.

## 2.12.11 Additional Information

There is no additional information for this use case.

## 2.12.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to:
  - a. navigate back to search display from the view display.
  - b. create runway / helipad version from the view runway / helipad display.
  - c. navigate back from the view lighting information display to view runway / helipad display.
- 2. If the user navigated to view runway / helipad from add airport / heliport, system will provide an ability to navigate to add airport / heliport display from the view runway / helipad display.
- 3. If the user navigated to view runway / helipad from edit airport / heliport, system will provide an ability to navigate to edit airport / heliport display from the view runway / helipad display.
- 4. If the user navigated to view runway / helipad from view airport / heliport, system will provide an ability to navigate to view airport / heliport display from the view runway / helipad display.

## 2.13 Use Case Specification: Delete Runway / Helipad

## 2.13.1 Brief Description

This use case describes the process of deleting an existing working or pending runway / helipad record by a user.

## 2.13.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

## 2.13.3 Pre-Conditions

- User must be logged in the system as one of the actors mentioned in section 2.13.2 above.
- 2. User has conducted 'Search Runway / Helipad' or 'Add Airport / Heliport' or 'Edit Airport / Heliport' process and selected a runway / helipad record for deleting.
- 3. User must have the access privileges to delete runway / helipad information.

## 2.13.4 Basic Flow of Events

- 1. User selects to delete a particular runway / helipad record from AIRNAV.
- 2. System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected runway / helipad.
- 3. IFPA Enterprise finds no associated record(s) to the selected runway / helipad record.
- 4. System deletes the selected runway / helipad record from the system and displays an appropriate message to the user.
- 5. If the system fails to delete the selected runway / helipad record, system displays an appropriate message to the user.

#### 2.13.5 Alternate Flows

## 2.13.5.1 Associated Record(s) from IFPA Enterprise

- 1. User selects the runway / helipad record to be deleted
- 2. User selects to delete the selected runway / helipad record from AIRNAV.
- System invokes a service to the IFPA Enterprise requesting associated record(s) to the selected runway / helipad record.
- 4. IFPA Enterprise returns a list of associated record(s) and their respective owner(s) to the selected runway / helipad record.
- 5. System does not allow the delete of the runway / helipad record and displays the list of associated record(s) and their respective owner(s) to the user.

## 2.13.6 Sub – flows

There no sub-flows for this use case.

## 2.13.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.13.8 Post-Conditions

- 1. The selected runway / helipad record will be deleted from the system.
- 2. The deleted runway / helipad record will not be searchable in the system.

## 2.13.9 Extension Points

There are no extension points for this use case.

## 2.13.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to runway / helipad.

## 2.13.11 Additional Information

There is no additional information for this use case.

## 2.14 Use Case Specification: Activate Runway/ Helipad

## 2.14.1 Brief Description

This use case describes the process of changing the status of a 'Pending' Runway / Helipad record to 'Active'.

#### 2.14.2 Actors

Following are the actors for this use case:

1. AIRNAV - Internal

## 2.14.3 Pre-Conditions

1. Runway / Helipad record(s) in 'Publication' model with status 'Pending'.

## 2.14.4 Basic Flow of Events

- 1. System retrieves the version of runway / helipad records in 'Publication' model with status 'Pending' and publication date as the system date.
- 2. System sets the status of currently 'Active' version of the airport / heliport records, retrieved in step # 1 above, to 'History'.
- 3. System sets the status of the retrieved version of runway / helipad records, as per step # 1 above, to 'Active'.

## 2.14.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.14.6 Sub-flows

There are no sub-flows for this use case.

## 2.14.7 Key Scenarios

There are no key scenarios for this use case.

## 2.14.8 Post-Conditions

- 1. All the currently 'Active' version of the runway / helipad records within the 'Publication' model, whose 'Pending' version will become active, are converted to 'History' version of the runway / helipad records.
- 2. All the 'Pending' version of the runway / helipad records within the 'Publication' model with publication date as system date are converted to 'Active' version of the runway / helipad records.

#### 2.14.9 Extension Points

There are no extension points for this use case.

## 2.14.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to Runway / Helipad.

#### 2.14.11 Additional Information

There is no additional information for this use case.

## 2.15 Use Case Specification: Create Runway / Helipad Version

## 2.15.1 Brief Description

This use case describes the process of creating a new version of an existing runway / helipad record by a user.

#### 2.15.2 Actors

Following are the actors for this use case:

1. Data Specialist

## 2.15.3 Pre-Conditions

- 1. User must be logged in the system as one of the actors mentioned in section 2.14.2 above.
- 2. User has conducted the 'View Runway / Helipad' process for the selected runway / helipad record.
- 3. User must have the access privileges to create a new version of the existing runway / helipad information.

## 2.15.4 Basic Flow of Events

- 1. User selects to create a new version of the runway / helipad record.
- 2. System prompts user to select the either working or pending status of the new version of the runway / helipad record.
- 3. System creates a new runway / helipad record with status as selected and displays the new runway / helipad record in an edit mode.
- 4. User makes the necessary changes to the information of the newly created version of the runway / helipad record and selects to save the runway / helipad record in the system.
- 5. System saves the new version of the runway / helipad record with the changed information and displays an appropriate message to the user.
- 6. If the system fails to save the new version of the runway / helipad record with the changed information as entered by the user, system displays an appropriate message to the user.

## 2.15.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.15.6 Sub-flows

There no sub-flows for this use case.

## 2.15.7 Key Scenarios

There are no key scenarios for this use case.

## 2.15.8 Post-Conditions

1. A new version of the record with status either as 'Working' or 'Pending' is saved in the system.

## 2.15.9 Extension Points

There are no extension points for this use case.

## 2.15.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to runway / helipad.

## 2.15.11 Additional Information

There is no additional information for this use case.

# 2.16 Use Case Specification: Change Active Runway / Helipad to History

## 2.16.1 Brief Description

This use case describes the process of pushing an existing active runway / helipad record to history status by system automatically.

#### 2.16.2 Actors

Following are the actors for this use case:

1. AlRNAV - Internal

## 2.16.3 Pre-Conditions

 Runway / Helipad record(s) in 'Publication' model with status 'Pending'. OR

Existing active runway / helipad record(s) with effective end date.

## 2.16.4 Basic Flow of Events

- 1. System retrieves the version of runway / helipad record(s) in 'Publication' model with status 'Pending' and publication date as the system date.
- 2. System retrieves the version of runway / helipad record(s) in 'Publication' model with status 'Active' and effective end date as the system date.
- 3. System sets the status of currently 'Active' version of the runway / helipad record(s), retrieved in step # 1 and # 2 above, to 'History'.

#### 2.16.5 Alternate Flows

There are no alternate flows for this use case.

#### 2.16.6 Sub-flows

There are no sub-flows for this use case.

## 2.16.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.16.8 Post-Conditions

- 1. All the currently 'Active' versions of the runway / helipad record(s) within the 'Publication' model, whose 'Pending' version will become active as their publication date is same as the system date, are converted to 'History' version of the runway / helipad record(s) and the effective end date is set to the system date.
- 2. All the 'Active' versions of the runway / helipad record(s) whose effective end date is same as system date are converted to 'History' version of the runway / helipad record(s).

## 2.16.9 Extension Points

There are no extension points for this use case.

## 2.16.10 Special Requirements

1. Refer to Supplementary Specifications for requirements related to runway / helipad.

## 2.16.11 Additional Information

There is no additional information for this use case.



## **ATO-A information Technology**

**Technical Services Group** 

# Airport Navigation Aid Database Application 2.0 (AIRNAV 2.0)

**Expanded Service Volume (ESV) Use Cases and Business Rules** 

## **Revision History**

#	Version	Date	Description	Ву
1	V00R01	12/09/2007	Draft Version of the Document	Frances K. Hubbard
2	V01R00	12/20/2007	First Version of the Document	Frances K. Hubbard / Vishal Maheshwari

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## 1 Introduction

This document fully describes the functionality of Maintain Expanded Service Volume (ESV) module within the AIRNAV 2.0 system. These requirements are captured in the AVN-iSM Use Case format. It details the needs the system must address to capture and provide data related to AIRNAV 2.0 system.

Refer to AIRNAV interface control document for implementation requirements related to Web Services.

## 1.1 Abbreviations and Acronyms

Refer the document AIRNAV - Glossary for abbreviations, acronyms and other general terminology used in the AIRNAV documentation.

## 2 Use Cases

The Maintain ESV module will include following use cases:

- 1. Search ESV
- 2. Add ESV
- 3. Edit ESV
- 4. View ESV
- 5. Delete ESV

The details of each of the above mentioned use cases are described in this document.

## 2.1 Use Case Specification: Search ESV

## 2.1.1 Brief Description

This use case describes the process of searching for ESV data record(s) in ESVMS system.

#### 2.1.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

## 2.1.3 Pre - conditions

- User must be logged in the system as one of the actors mentioned in section 2.1.2 above
- 2. User must have the access privileges to search ESV information.

## 2.1.4 Basic Flow of Events

- 1. User invokes the 'Search ESV' functionality in the system.
- 2. System prompts the user to provide the search criteria for searching ESV, including but not limited to:
  - a. NAVAID Identifier
  - b. NAVAID Component Type Listing.
  - c. ESVMS Identifier
  - d. Radial
  - e. Distance
  - f. Minimum Altitude
  - a. Maximum Altitude
- 3. User enters a value for any combination of search criterion at the same time and selects to retrieve the records.
- System sends a search request to IFPA Enterprise with the search criteria entered by the user
- 5. System receives a complete listing of ESV records from ESV Management System, which satisfy the user entered search criteria, sorted by their identifier in a tabular format. The information displayed for each ESV, including but not limited to:
  - a. ESVMS Identifier
  - b. NAVAID Identifier
  - c. NAVAID Component Type
  - d. Radial
  - e. Distance
  - f. Minimum Altitude
  - g. Maximum Altitude
- If no records satisfy the user entered search criteria, system displays an appropriate message to the user.

#### 2.1.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.1.6 Sub - flows

There are no sub-flows for this use case.

## 2.1.7 Key Scenarios

There are no key scenarios for this use case.

## 2.1.8 Post - conditions

There are no post conditions for this use case.

#### 2.1.9 Extension Points

There are no extension points for this use case.

## 2.1.10 Special Requirements

1. Refer to Business Rules section and Supplementary Specifications for requirements related to ESV.

#### 2.1.11 Additional Information

1. This Use Case must be designed and developed in partnership with the owners of the ESV Management System.

## 2.1.12 Business Rules

- 1. For each ESV record in the search result, system will provide an ability, for users with appropriate access privileges, to directly navigate to:
  - a. edit display of that ESV record
  - b. view display of that ESV record
- 2. On the search result, the system will provide an ability to directly navigate to the add ESV display for users with appropriate access privileges.

## 2.2 Use Case Specification: Add ESV

## 2.2.1 Brief Description

This use case describes the process of adding an ESV data record(s) in the ESV Management System through AIRNAV.

#### 2.2.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

#### 2.2.3 Pre – conditions

- 1. User must be logged in the system as one of the actors mentioned in section 2.2.2 above.
- 2. User has conducted 'Search ESV' process and found no matching records.
- 3. User must have the access privileges to add ESV information.

## 2.2.4 Basic Flow of Events

- 1. User selects to navigate to the add display.
- 2. System prompts the user to enter the information, including but not limited to, that satisfy the ESV Management System:
  - a. NAVAID Identifier
  - b. NAVAID Component Type
  - c. Radial
  - d. Distance
  - e. Minimum Altitude
  - f. Maximum Altitude
- System sends an add request to IFPA Enterprise with the information entered by the user
- ESV Management System adds the ESV data and returns an ESVMS Identifier as a response.
- 5. System stores the ESVMS Identifier at the NAVAID Component Level and displays an appropriate message to the user.
- 6. If the system or ESV Management System fails to add the ESV record with the information as entered by the user, system displays an appropriate message to the user.

#### 2.2.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.2.6 Sub – flows

There are no sub-flows for this use case.

## 2.2.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.2.8 Post – conditions

- 1. A new ESV record is added to the ESV Management System and is searchable.
- 2. The ESVMS Identifier as returned by the ESV Management System is stored in the system at NAVAID Component level.

#### 2.2.9 Extension Points

There are no extension points for this use case.

## 2.2.10 Special Requirements

 Refer to Business Rules section and Supplementary Specifications for requirements related to ESV.

## 2.2.11 Additional Information

1. This Use Case must be designed and developed in partnership with the owners of the ESV Management System.

## 2.2.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to:
  - a. navigate back to search display from the add display without adding a new record.
  - b. clear the entire user entered information and any dependent information before record is added to the system.

## 2.3 Use Case Specification: Edit ESV

## 2.3.1 Brief Description

This use case describes the process of editing and ESV record in the ESV Management System through AIRNAV.

## 2.3.2 Actors

Following are the actors for this use case:

- 1. Data Specialist
- 2. Web Services User

#### 2.3.3 Pre - conditions

- User must be logged in the system as one of the actors mentioned in section 2.3.2 above.
- 2. User has conducted 'Search ESV' process and selected an ESV record for editing.
- 3. User must have the access privileges to edit ESV information.

## 2.3.4 Basic Flow of Events

- 1. User selects to navigate to edit display for a particular ESV record.
- 2. System displays the selected ESV record in the edit mode.
- 3. User makes the necessary changes to the record information and selects to save the changed ESV record in the system.
- 4. System invokes a service to the IFPA Enterprise requesting associated record(s) to the requested record.
- 5. IFPA Enterprise finds no associated record(s) to the selected ESV record.
- System saves the ESV record with the changed information and displays an appropriate message to the user.
- 7. If the system or ESV Management System fails to update the selected ESV record, system displays an appropriate message to the user.

#### 2.3.5 Alternate Flows

## 2.3.5.1 Associated Record(s) from IFPA Enterprise

- 1. User selects to navigate to edit display for a particular ESV record.
- 2. System displays the selected ESV record in the edit mode.
- 3. User makes the necessary changes to the record information and selects to save the changed ESV record in the system.
- System invokes a service to the IFPA Enterprise requesting associated record(s) to the requested record.
- IFPA Enterprise returns a list of associated record(s) and their respective owner(s) that are linked to the record.
- 6. System does not allow the update of the ESV record and displays the list of associated record(s) and their respective owner(s) to the user.

#### 2.3.6 Sub - flows

There are no sub-flows for this use case.

## 2.3.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.3.8 Post – conditions

1. A changed ESV record is saved in the ESV Management System and is searchable based on the changed information.

#### 2.3.9 Extension Points

There are no extension points for this use case.

## 2.3.10 Special Requirements

 Refer to Business Rules and Supplementary Specifications for requirements related to ESV.

## 2.3.11 Additional Information

1. This Use Case must be designed and developed in partnership with the owners of the ESV Management System.

## 2.3.12 Business Rules

- 1. System will provide an ability, for users with appropriate access privileges, to
  - a. navigate back to search display from the edit display without making any changes to the selected record.
  - b. cancel the changes made by user to the record before the changed record is saved to the system.
- 2. Refer to Business Rules section of the use case: 'Add ESV' for other requirements.

## 2.4 Use Case Specification: View ESV

## 2.4.1 Brief Description

This use case describes the process of viewing an existing ESV record in the ESV Management System though AIRNAV.

#### 2.4.2 Actors

Following are the actors for this use case:

1. Data Specialist

#### 2.4.3 Pre - conditions

- User must be logged in the system as one of the actors mentioned in section 2.4.2 above.
- 2. User has conducted 'Search ESV' process and selected an ESV record for viewing.
- 3. User must have the access privileges to view ESV information.

#### 2.4.4 Basic Flow of Events

- 1. User selects to navigate to view display for a particular ESV record.
- System displays the selected ESV record in the view mode.

#### 2.4.5 Alternate Flows

There are no alternate flows in this use case.

#### 2.4.6 Sub - flows

There are no sub-flows for this use case.

## 2.4.7 Key Scenarios

There are no key scenarios for this use case.

#### 2.4.8 Post - conditions

There are no post-conditions for this use case.

#### 2.4.9 Extension Points

There are no extension points for this use case.

## 2.4.10 Special Requirements

 Refer to Business Rules section and Supplementary Specifications for requirements related to ESV.

#### 2.4.11 Additional Information

1. This Use Case must be designed and developed in partnership with the owners of the ESV Management System.

#### 2.4.12 Business Rules

- System will provide an ability, for users with appropriate access privileges, to:
  - a. navigate back to search display from the view display.

## 2.5 Use Case Specification: Delete ESV

## 2.5.1 Brief Description

This use case describes the process of deleting ESV record in the ESV Management System though AIRNAV. The delete here refers to the physical deletion of the ESV record.

#### 2.5.2 Actors

Following are the actors for this use case:

- 1.Data Specialist
- 2.Web Services User

## 2.5.3 Pre - conditions

- 1.User must be logged in the system as one of the actors mentioned in section 2.5.2 above.
- 2. User has conducted 'Search ESV' process and selected a ESV record for deleting.
- 3. User must have the access privileges to delete ESV information.

#### 2.5.4 Basic Flow of Events

- 1. User invokes the 'Delete ESV' functionality in the system.
- 2. User selects to delete a particular ESV record from AIRNAV and ESVMS.
- 3. System invokes a service to the IFPA Enterprise requesting associated record(s) to the requested record.
- 4.IFPA Enterprise returns a list of associated record(s) and their respective owner(s) that are linked to the record.
- 5.If no associated records are returned, the system formats an XML request for deleting ESV data and forwards to ESVMS system.
- 6. The ESVMS system deletes existing ESV data and returns an appropriate response.
- 7. System formats an appropriate response to the user.

#### 2.5.5 Alternate Flow 1

- 1. User invokes the 'Delete ESV' functionality in the system.
- 2. User selects to delete a particular ESV record from AIRNAV and ESVMS.
- System invokes a service to the IFPA Enterprise requesting associated record(s) to the requested record.
- 4.IFPA Enterprise returns a list of associated record(s) and their respective owner(s) that are linked to the record.
- 5. If any associated record is returned, the system formats the list of impacted records for display to the user.
- 6. System returns impact list and an appropriate response to the user.

#### 2.5.6 Alternate Flow 2

- 1. User invokes the 'Delete ESV' functionality in the system.
- 2. User selects to delete a particular ESV record from AIRNAV and ESVMS.
- 3. System invokes a service to the IFPA Enterprise requesting associated record(s) to the requested record.
- 4.IFPA Enterprise returns a list of associated record(s) and their respective owner(s) that are linked to the record.
- 5.If no associated records are returned, the system formats an XML request for deleting ESV data and forwards to ESVMS system.
- 6. Data fails validation and ESVMS system returns a negative response.
- 7. System formats an appropriate response to user.

## 2.5.7 Sub - flows

There are no sub-flows for this use case.

## 2.5.8 Key Scenarios

There are no key scenarios for this use case.

## 2.5.9 Post – conditions

- 1. An ESV record is deleted from the ESMVS system.
- 2. An ESV record is deleted from AIRNAV.

#### 2.5.10 Extension Points

There are no extension points for this use case.

## 2.5.11 Special Requirements

This Use Case must be designed and developed in partnership with the owners of the ESVMS system.

## 2.5.12 Additional Information

There is no additional information for this use case.

#### 2.5.13 Business Rules

There are no business rules for this use case.